Installation, use and maintenance

EAREER SAFEGATE IIII

SAFEGATE ////

Type 4 barrier for Access Control with Muting functions integrated



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INTRODUCTION

Dear customer, REER congratulates you on purchasing this product.

Refer to this manual before using SAFEGATE; keep the CD-ROM and the Quick Installation Guide in a place easy to be found in order to be able to refer to them when needed.

PURPOSE OF THIS DOCUMENT

This manual illustrates the operation of the programmable access curtain with Muting integrate SAFEGATE functions. It shows specifically:

- > a general description of the SAFEGATE world;
- > the characteristics of the muting function;
- > the different types of muting and their application;
- ➤ the list of SAFEGATE models:
- > the mechanical installation;
- > the electrical connections;
- > the mode of operation;
- > the Muting, Override modes and their activation;
- > SAFEGATE programming through dedicated software.

PRODUCT DESCRIPTION

The SAFEGATE light curtain is an optoelectronic multi-beam safety system belonging to the category of Type 4 electro-sensitive devices (in accordance with EN 61496-1,2), equipped with the Muting function, for the protection of persons exposed to dangerous machines or plants.

SAFEGATE ensures a perfect integration of the Muting sensors that are connected directly to the connectors on the safety curtain.

In the hardware configuration models (SM and SMO) the Muting logic and the operating parameters are fully defined by the connections of the main connector.

The SMPO programmable models retain all the features of SM and SMO models allowing also the configuration of various parameters and additional features via the SCS software (SAFEGATE Configuration Software).

The main features of SAFEGATE are as follows:

- \triangleright Resolution: 14, 30 and 40 mm 2, 3 and 4 beams.
- > Integration of the main safety functions, including self-monitoring of static outputs, EDM and Start/ Restart Interlock.
- > Outline dimensions: 55 x 50 mm.
- > Protected height: 300 to 2200 mm.
- > Degree of protection: IP65 e IP67.
- > Operating temperature: -30 ... +55 ° C (no condensation).
- Muting lamp and integrated curtain status indication (SMO/SMPO).

CONTENT OF THE PACKAGE

- > SAFEGATE emitter and receiver
- > CD-ROM (Containing configuration software and this Manual)
- > Quick Installation Guide
- Mounting accessories bag
- Sealing caps for unused connectors



GLOSSARY

DETECTION CAPABILITY	Sensing function parameter limit specified by the supplier that will cause actuation of the electro-sensitive equipment (ESPE)			
DETECTION ZONE	Zone within which a specified test piece will be detected by the electro-sensitive equipment (ESPE)			
EDM External Device Monitoring: control of external contactors switching through feedback input				
MUTING	Function of temporary suspension of the safety function: temporary exclusion of the safety curtain, automatically and safely carried out based on the machine cycle			
OVERRIDE	Forced activation of OSSD outputs: during the muting cycle for material removal			
PROTECTED HEIGHT	A measure that indicates the height controlled by the curtain			
RANGE	Maximum operating distance: between emitter and receiver			
RESOLUTION	Minimum detectable object size: to ensure the arrest of the dangerous machine			
RESPONSE TIME	IME Time between interruption of the gate and disabling of outputs			
START/RESTART INTERLOCK	Interlock function (manual reset required): when starting or restarting the machine			
SAFETY DISTANCE	Minimum distance that must exist between the protected gate and the dangerous area			
LX	Muting Logic with 2 mono-directional cross-sensors			
L2	Muting Logic with 2 mono-directional parallel sensors			
TX	Muting Logic with 2 bi-directional cross-sensors			
T4	Muting Logic with 4 bi-directional parallel sensors			
S	Model without Muting			
SM	Model with Muting and Hardware configuration on main connector			
SMO	SM model with integrated Muting lamp			
SMP	Model with Muting Programmable with SCS software			
SMPO	SMP model with integrated Muting lamp			

DISPOSAL OF MATERIALS

Dispose of the product in an eco-compatible manner and in accordance with national legislation.



For Countries in the European Union:

Pursuant to the Directive no. 2012/19/EU on waste electrical and electronic equipment (WEEE).

The crossed out wheelie-bin symbol on the equipment or its packaging means that when the product reaches the end of its useful life it must be collected separately from other waste.

Proper separate collection of the discarded equipment for later environment-friendly recycling, processing and disposal, helps to avoid any negative impact on the environment and health and encourages re-use and recycling of the materials the equipment is made of.

In each individual Member State of the European Union this product is required to be disposed of in accordance with Directive **2012/19/EU** as implemented in the Member State where the product is disposed of. For further information please contact REER or your local dealer.



SAFETY

SIMBOLOGY

- This symbol indicates an important warning for personal safety. Failure to comply with this warning may result in high level risk for exposed personnel.
- This symbol indicates an important warning for the proper operation of the curtain.

PRECAUTIONS

- The operations indicated in this document must only be carried out by qualified personnel. Such personnel must have the necessary requirements to be able to operate on the electronic equipment to be installed in order to avoid any risky situation.

 REER declines any liability for malfunctioning of equipment installed by unqualified staff.
- Any use other than those indicated in this manual may be considered as potentially dangerous for the installer and the machine operator.
- For safety reasons, please contact your country's safety authorities or the relevant industry association if necessary.
- For applications in the food industry, consult the manufacturer to verify compatibility between curtain materials and chemical agents used.
- The protective function of optoelectronic safety devices is not effective in cases where:
- ➤ The machine stopping device cannot be actuated electrically and it is not possible to stop all dangerous machine movements immediately and at any time during the operating cycle.
- ➤ The hazardous condition is associated with the falling of objects from above or ejection of these from the machine.
- > Anomalous forms of light radiation are present (for example, use of cablelless control devices on cranes, radiation from weld spatter, etc). In this case additional measures may be necessary to ensure that the ESPE does not fail to danger.
- The strict and complete observance of all the standards, indications and prohibitions set forth in this manual is a prerequisite for its proper operation.

 REER S.p.A. therefore, declines any liability in case of non-respect, even partial, of these indications.



CAUTIONS BEFORE INSTALLATION

Before installing the SAFEGATE safety system, you must verify all of the conditions listed below:

- The protection level (Type4, SIL3, SILCL3, PLe) of the SAFEGATE system must be compatible with the danger level of the system to be controlled.
- The safety system should only be used as a stop device and not as a device for controlling the machine.
- The machine control must be electrically actuated.
- It must be possible to immediately stop any dangerous operation of the machine.
 In particular, the machine stopping times must be known and, if necessary, measured.
- The machine must not generate hazardous situations due to projection or fall of materials from above; otherwise it is necessary to provide additional mechanical protections.
- The minimum size of any object to be intercepted must be greater than or equal to the resolution of the selected model.

The knowledge of the shape and size of the hazardous area allows an estimation of the width and the height of its access area:



Before placing the safety device, it is important to consider the following general guidelines:

- Verify that the temperature of the environment where the system is installed is compatible with the temperature operating parameters indicated on the product label and in the technical data.
- Avoid positioning the Emitter and Receiver near intense or flashing high-intensity light sources.
- Specific environmental conditions may affect the level of detection of photoelectric devices. In environments where fog, rain, smoke or dust may be present, it is advisable to use suitable Fc correction factors at the maximum useful values of the working range to ensure the correct operation of the equipment. In these cases:

$Pu = Pm \times Fc$

where Pu and Pm are respectively the working range and maximum range in metres.

Recommended Fc factors are shown in the following table.

ENVIRONMENTAL CONDITION	CORRECTION FACTOR Fc
Fog	0,25
Steam	0,50
Powders	0,50
Dense smoke	0,25



If the device is placed in environments subject to sudden temperature fluctuations, it is imperative to take the appropriate steps to avoid condensation on the lenses, which may impair the detection capability.





LIST OF APPLICABLE STANDARDS

SAFEGATE is manufactured in compliance with the following European Directives:

2006/42/EC "Machinery Directive"

2014/30/EU "Electromagnetic Compatibility Directive"

And it complies with the following Standards:

		> EN 61496-1:2013
	Tipo 4	> EN 61496-2:2013
Safety level	SIL 3	 ➤ IEC 61508-1:(ed.2) ➤ IEC 61508-2:(ed.2) ➤ IEC 61508-3:(ed.2) ➤ IEC 61508-4:(ed.2)
	SILCL 3	> IEC 62061:2005/A2:2015
	PL e - Cat. 4	➤ EN ISO 13849-1: 2015



EC DECLARATION OF CONFORMITY





Dichiarazione CE di conformità EC declaration of conformity

Torino, 29/09/2020

REER SpA via Carcano 32 10153 - Torino Italy

dichiara che le barriere fotoelettriche SAFEGATE sono Dispositivi Elettrosensibili di Sicurezza (ESPE) di :

- Tipo 4 (secondo la Norma EN 61496-1:2013; EN 61496-2:2013)
- SIL 3 (secondo la Norma EN 61508-1:2010; EN 61508-2:2010; EN 61508-3:2010; EN 61508-4:2010)
- SILCL 3 (secondo la Norma EN 62061:2005/A2:2015)
- Cat.4 PL e (secondo la Norma EN ISO 13849-1:2015)

declares that the SAFEGATE photoelectric safety barriers are:

- Type 4 (according the Standard EN 61496-1:2013; EN 61496-2:2013)
- SIL 3 (according the Standard EN 61508-1:2010; EN 61508-2:2010; EN 61508-3:2010; EN 61508-4:2010)
- SILCL 3 (according the Standard EN 62061:2005/A2:2015)
- Cat.4 PL e (according the Standard EN ISO 13849-1:2015)

Electro-sensitive Protective Equipments (ESPE)

realizzati in conformità alle seguenti Direttive Europee: complying with the following European Directives:

- 2006/42/EC "Direttiva Macchine" "Machine Directive"
- 2011/65/EU "RoHS Linea Guida" " RoHS – Guideline "
- 2014/30/EU "Direttiva Compatibilità Elettromagnetica" "Electromagnetic Compatibility Directive"

e alle seguenti Norme: /and to the following Standards:

- EN 50178: 1997
- EN 55022: 2006
- EN 61000-6-2: 2005

e sono identiche all'esemplare esaminato ed approvato con esame di tipo CE da: and are identical to the specimen examined and approved with a CE - type approval by:

TÜV SÜD Product Service GmbH – Zertifizierstelle – Ridlerstraße 65 – 80339 – München – Germany N.B. number: 0123 - Certificate No: Z10 024820 0083 Rev.00

Carlo Pautasso Direttore Tecnico

Technical Director

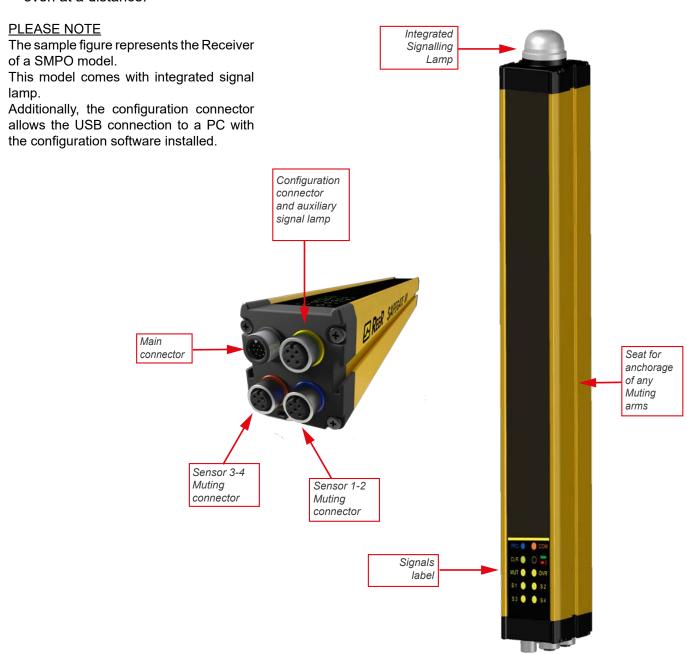
Simone Scaravelli

Amministratore Delegato Managing Director

SYSTEM ARCHITECTURE

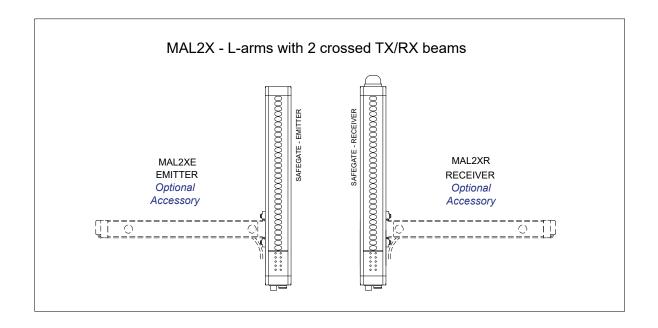
SAFEGATE is supplied as a pair (Emitter/Receiver) and allows integration with external Muting sensors that are directly connected to the connectors installed on the curtain.

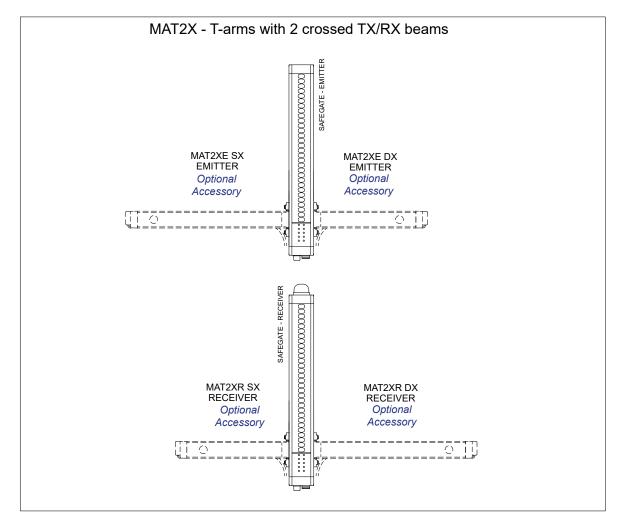
- Each curtain can be configured as LX, L2, TX and T4 (see the different Muting types in the section "MUTING FUNCTION") through the wiring of the main connector. This configuration can be changed at any time.
- > SAFEGATE can be used with (pre-aligned and pre-configured) Muting arms, with M5 multibeam photocells (available as accessories) or any other Muting sensor.
- > S models integrate the functions of "START/RESTART INTERLOCK" and "EDM" but do not allow the Muting function.
- > *SM* models allow the Muting function, but have no integrated signal lamp.
- > Programmable SMP-SMPO models allow an ideal use of further configuration options to solve potential problems in complex application scenarios.
- > SMO-SMPO models with Integrated signalling lamp allow the immediate viewing of the curtain status even at a distance.



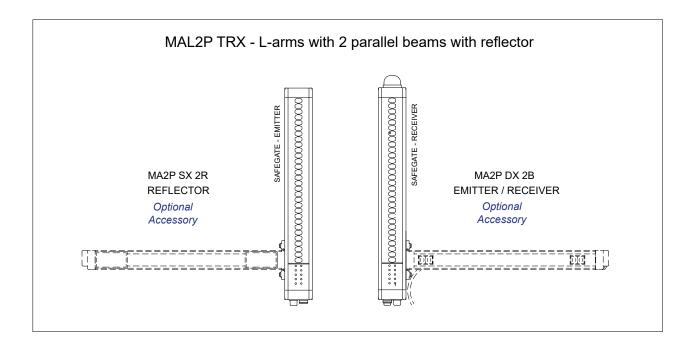


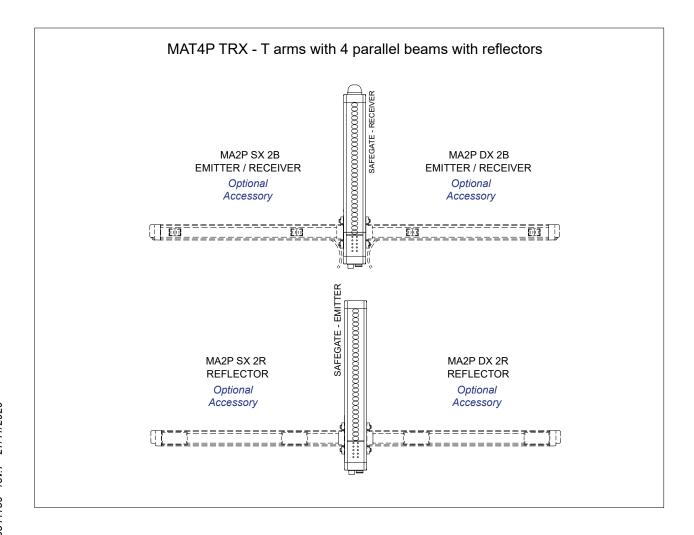
POSSIBLE CONFIGURATIONS (via optional accessories)



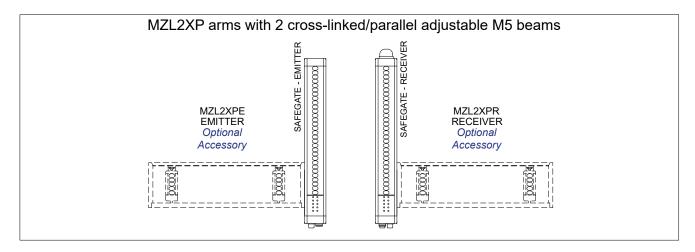


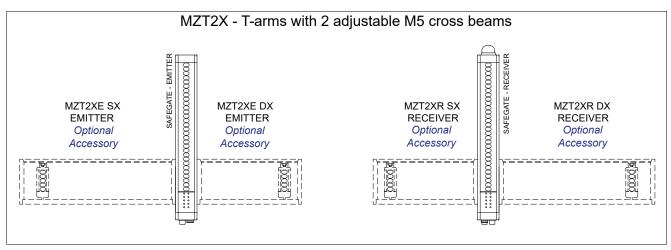


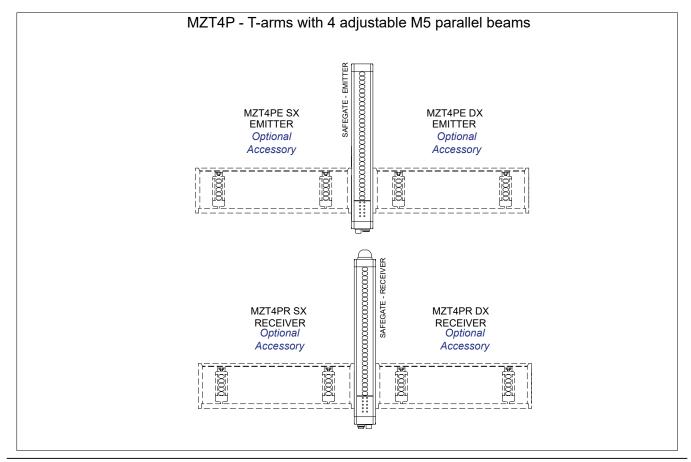














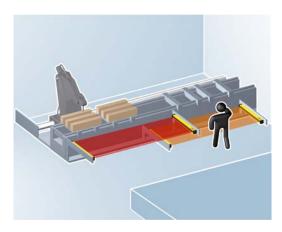
THE MUTING FUNCTION

The Muting function is the temporary exclusion of the safety curtain, automatically and safely carried out based on the machine cycle.

Carefully verify your risk analysis to make sure the Muting function is compatible with your application and what additional measures should be taken.

There are basically two types of applications:

1. Those allowing people to enter the dangerous area during the non-dangerous part of the machine cycle.

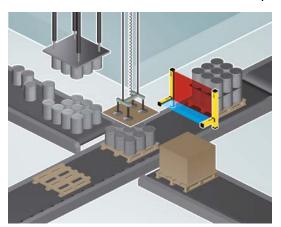


Example:

Positioning or Removing the workpiece

Depending on the position of the tool, which is the hazardous element, one of the two curtains (the one facing the tool work area) is active while the other is in Muting condition to allow the operator loading/unloading the workpiece. The Muting condition of the two curtains will then be reversed when the tool is to work on the opposite side of the machine.

2. Those who allow material transit and prevent access to the people.



Example: Pallet exit from the hazardous area

The safety curtain is equipped with Muting sensors able to effectively discriminate between the person and the material allowed to get through the controlled gate. The essential requirements concerning the Muting function are described in the following Standards:

- IEC TS 62046 "Application of protection devices for people detection".
- EN 415-4 "Safety on packaging machines Palletizers and Unpalletizers".
- IEC 61496-1 "Electro-sensitive protective devices".

General requirements about safety:

- > The Muting function is a temporary suspension of the safety function that needs to be activated and deactivated automatically.
- The activation and subsequent deactivation of the Muting function must take place only through the use of two or more wired and independent signals activated by a correct timing or spatial sequence. This means that a stand-alone failure cannot activate the Muting function.
- > It should not be possible to activate the Muting function when SAFEGATE has deactivated the safety outputs.
- It should not be possible to start a Muting function by switching off and then restarting the device.
- > Muting must be activated at an appropriate point of the machine cycle, i.e. only when there are no risks for the operator.
- ➤ Muting sensors must be mechanically protected so that any impact does not modify their alignment.
- > If the distance between the muting sensors is lower than required, the SAFEGATE safety function is
- > Make sure that the MUTING/OVERRIDE signal lamp is correctly installed in a visible location by the operator.



A) 2 INTEGRATED CROSS MUTING SENSORS, ONLY FOR PALLET OUTPUTS (LX)

In this way sensors 1 and 2 are on the same side as the vertical curtain and are placed in front of the dangerous gate. This mode is unidirectional and is useful for protecting gates with pallet output.

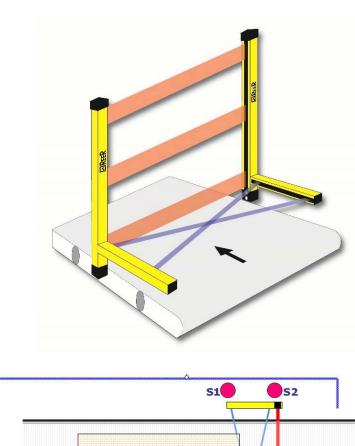
The activation of the Muting function occurs after the simultaneous interruption (within 4 sec maximum) of S1 and S2 sensors. As long as both sensors remain busy, the Muting function continues. When the first of the 2 sensors is released, the material will still have 4 seconds to leave the protected area limited by the curtain. The Muting condition will be disabled as soon as the protected area is released.

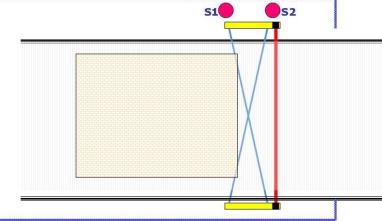
At the end of 4 seconds, if the curtain is still busy, the OSSD outputs are disabled by interrupting the operation of the machine. This allows selecting the maximum duration of the Muting condition (timeout) as 30 seconds or 9 hours.

Other timings are available with programmable programs.

For the safe operation of the LX configuration, it is absolutely essential that the horizontal Muting sensor elements are located within the hazardous area.

The minimum distance between two consecutive pallets must be less than 10 cm or greater than 32cm.







B) 2 INTEGRATED PARALLEL MUTING SENSORS, ONLY FOR PALLET OUTPUTS (L2)

In this way sensors 1 and 2 are on the same side as the vertical curtain and are placed in front of the dangerous gate. This mode is unidirectional and is useful for protecting gates with pallet output.

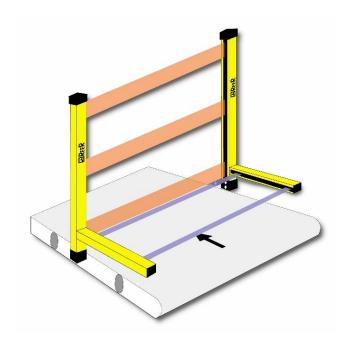
The activation of the Muting function occurs after the simultaneous interruption (within max 4 sec) of sensors S1 and S2. As long as both sensors remain busy, the Muting function continues. When the first of the 2 sensors is released, the material will still have 4 seconds to leave the protected area limited by the curtain. The Muting condition will be disabled as soon as the protected area is released. At the end of 4 seconds, if the curtain is still busy, the OSSD outputs are disabled by interrupting the operation of the

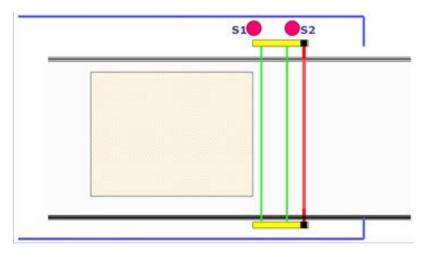
This allows selecting the maximum duration of the Muting condition (timeout) as 30 seconds or 9 hours.

Other timings are available with programmable programs.

For the safe operation of the L2 configuration, it is imperative that horizontal Muting sensors are located within the hazardous area.

The minimum distance between two consecutive pallets must be greater than 40 cm.





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C) 2 INTEGRATED CROSS MUTING SENSORS, FOR BI-DIRECTIONAL GATES (TX)

In this way, the two Muting sensors are each first on a different side of the vertical curtain. This mode is bidirectional and is useful for protecting gates with pallet output.



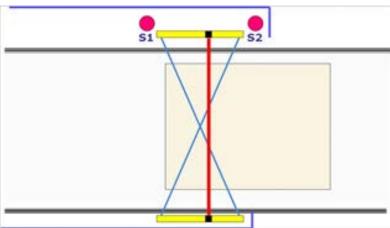
The crossing point of the two Muting sensors must be placed inside the hazardous area to avoid undesirable and dangerous activations of the Muting function.

The activation of the Muting function occurs after the simultaneous interruption (within max 4 sec) of sensors S1 and S2. As long as both sensors remain busy, the Muting function continues. By releasing the first of the two sensors, the Muting function is disabled.

This mode also allows selecting the maximum duration of the Muting condition (timeout) as 30 seconds or 9 hours.

Other timings are available with programmable programs.







D) 4 INTEGRATED PARALLEL MUTING SENSORS, FOR BI-DIRECTIONAL GATES (T4)

This mode is bidirectional and is useful for protecting gates with pallet output. Using this mode, two different modes of operation are outlined:

Concurrent

The activation of the Muting function occurs after the sensors S1 and S2 are interrupted (within max 4sec) (or S4 and S3 with material moving in the opposite direction).

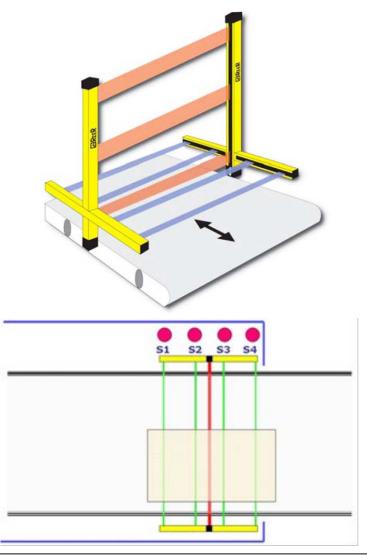
The Muting state ends after the release of the gate, and of the S3 sensor (or S2 with material moving in the opposite direction).



Sequential The activation of the Muting function occurs after the sequential interruption of sensors S1 and S2 (or S4 and S3 with material moving in the opposite direction) without time limitations.

The Muting state ends after the release of the gate, and of the S3 sensor (or S2 with material moving in the opposite direction).

- For the T4 models (sequential operation), there are two available timeouts: 1) 30 sec; 2) infinite.
- Other timings are available with programmable programs.
- In both modes of operation, the minimum pallet length must be 70 cm (to ensure simultaneous occupancy of all four sensors).





E) 2 EXTERNAL CROSS INTEGRATED MUTING SENSORS, FOR BI-DIRECTIONAL GATES (TX).

This mode is bidirectional and is useful for protecting gates with pallet output.

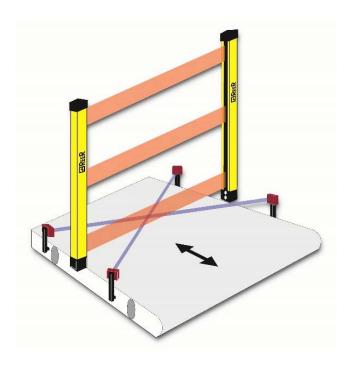


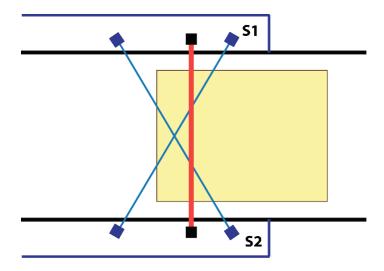
The crossing point of the two Muting sensors must be placed inside the hazardous area to avoid undesirable and dangerous activations of the Muting function.

The activation of the Muting function occurs after the simultaneous interruption (within max 4 sec) of sensors S1 and S2. As long as both sensors remain busy, the Muting function continues. When the first of the two sensors is released, the Muting function is disabled. In this mode of operation the maximum duration of the Muting condition (timeout) can be selected in 30 seconds or 9 hours.

→

Other timings are available with programmable programs.







F) 4 EXTERNAL PARALLEL MUTING SENSORS, FOR BI-DIRECTIONAL GATES (T4).

This mode is bidirectional and is useful for protecting gates with pallet output. Using this mode, two different modes of operation are outlined:

Concurrent

The activation of the Muting function occurs after the sensors S1 and S2 are interrupted (within max 4 sec) (or S4 and S3 with material moving in the opposite direction).

The Muting state ends after the release of the gate, and of the S3 sensor (or S2 with material moving in the opposite direction).



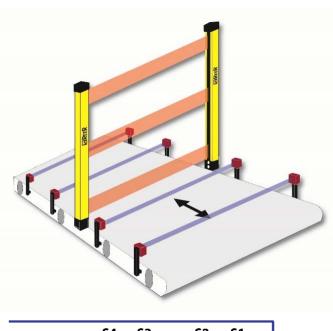
For the T4 models (concurrent operation), there are two available timeouts: 1) 30 sec; 2) 9 hours.

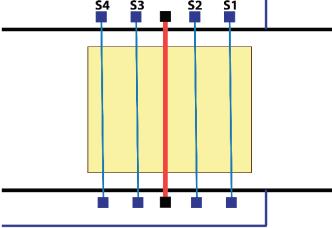
Sequential

The activation of the Muting function occurs after the sequential interruption of sensors S1 and S2 (or S4 and S3 with material moving in the opposite direction).

The Muting state ends after the release of the gate, and of the S3 sensor (or S2 with material moving in the opposite direction).

- For the T4 models (sequential operation), there are two available timeouts: 1) 30 sec; 2) infinite.
- Other timings are available with programmable programs.
- In both modes of operation, the minimum pallet length must be 70 cm (to ensure simultaneous occupancy of all four sensors).





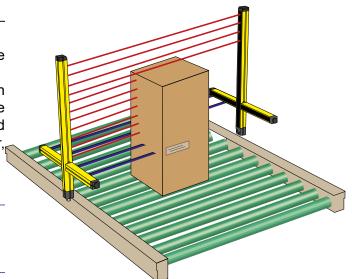


PARTIAL MUTING

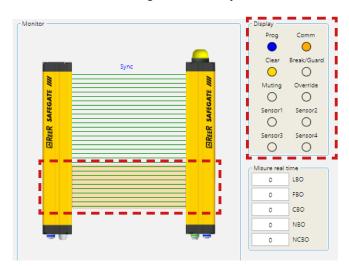
The Partial Muting feature allows you to limit the Muting function to a number of well-defined beams. By this function, you can enable the Muting function only for those beams that will be interrupted by the passage of the material (e.g. lower pallets at the end of the product cycle). The remaining beams, however, can be kept active to protect the dangerous gate.



This function is only available on SMP/SMPO models (except 2B) and must be managed through the Safegate Configurator software (select "Partial Muting Enabling").



The software should then select the number of beams affected by Partial Muting, taking into account that the first Partial Muting beam always starts from the bottom (connectors side).



For this operation, it may be useful to verify the Monitor software function (free beams are indicated by different colouring than the busy ones) and the various numerical information on the side (LBO, FBO, etc.).

Only one value can be entered when programming the number of beams affected by this function.

There are two types of partial Muting and, for both, the "Partial Muting" input pin (pin 6 of M12 12-pin connector on the receiver) must be used.

Partial Muting with Enable

With this option, the Partial Muting function is normally deactivated. To activate this function, the input signal (pins 6 and 11 of the receiver) must switch from LO to HI (rising edge) before starting the Muting cycle.

Partial Muting with Disable

With this option the Partial Muting function is normally active. To activate this function, the input signal (pin 6 of the receiver) must switch from LO to HI (rising edge) before starting the Muting cycle.



Refer to the "OPERATING MODES" section to correctly set this function.



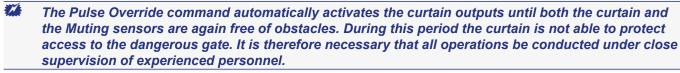
MUTING OVERRIDE

The OVERRIDE function becomes necessary when, after incorrect Muting activation sequences, the machine stops leaving the material in the dangerous gate.

In this situation, the OSSD outputs are inactive because the curtain and/or at least one Muting sensor are busy. In this condition, the OVERRIDE request LED flashes.



During the entire phase in which the OVERRIDE function is active, the Override/Muting lamp flashes. Periodically verify the efficiency of this lamp (during Muting or Override phases).



The user will use the type of Override previously configured:

- Override with Hold-to-run-Control
- 2. Override with Pulse Control

Override with Hold-to-run-Control

Activation of this function must be done by bringing both receiver pins 9 and 10 to + 24VDC (within a 400ms time window), for example by using a 2-way key switch with spring return.

Override has a maximum duration of 15 minutes; it can end due to two different conditions.

- 1. When the selector is released or the 15 minutes expire, the override ends, bringing the outputs to OFF, turning off the lamp, and returning the display to normal. However, it is still possible to start a new override, releasing the selector and reactivating it.
- 2. At the release of the curtain and sensors (clear gate) the override ends and the GUARD condition is reactivated (the curtain is working properly) without additional commands.

Override with Pulse Control

The activation of this function must occur inverting (within a time window of 400 ms) the condition of pins 9 and 10 of the receiver (e.g. through the use of a 2-way switch).

MAXIMUM OVERRIDE TIME (MODELS WITH HARDWARE CONFIGURATION)

The override has a maximum duration of 15 minutes (repeatable).

The function can only restart with a new request complying with the following conditions:

- 1. Maximum OVERRIDE time (after n consecutive requests) = 60 min
- 2. Maximum number of consecutive OVERRIDE requests = 30.

MAXIMUM OVERRIDE TIME (MODELS WITH SOFTWARE CONFIGURATION)

The function can only restart with a new request complying with the following conditions:

- Maximum OVERRIDE time (after n consecutive requests) = 4 x timeout override
- 2. Maximum number of consecutive OVERRIDE requests = 30.

At the release of the curtain and sensors (clear gate) the override ends and the GUARD condition is reactivated (the curtain is working properly) without additional commands.

The timer (point 1) and the counter (point 2) are reset if one of the following conditions occurs:

- 1. A proper sequence of Muting.
- 2. A system reset (turning it off and on).

the parameter "timeout override" can be set through the configuration software.



INSTALLATION

CALCULATION OF THE SAFETY DISTANCE

The effectiveness of the protection heavily depends on the correct positioning of the curtain according to the danger. The curtain must be positioned at a distance greater than or equal to the minimum safety distance S so that reaching the dangerous point can only be achieved after the dangerous operation of the machine has stopped.

The positioning shall be such that:

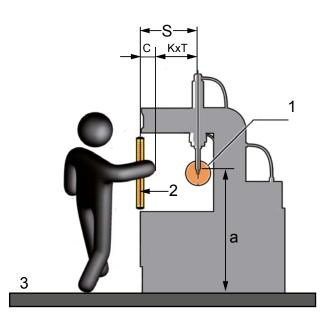
- · Reaching the dangerous point is avoided without crossing the area controlled by the curtain.
- No person is allowed in the dangerous area without this being detected. For this case, additional safety devices (e.g. horizontal light curtains) may be required.

The ISO 13855 standard provides the elements for calculating the safety distance.

If the machine under consideration is subject to a type C specific standard, reference should be made to this rule.

If the S distance calculated appears to be excessive, it is necessary:

- · to reduce the total time the machine is off
- · to improve the resolution of the curtain.



- 1. Dangerous point
- 2. Protected plane
- 3. Reference plane
- a. Height of dangerous point
- S. Safety distance

GENERAL FORMULA FOR CALCULATING THE SAFETY DISTANCE

$S = K \times T + C$

S	minimum safety distance between the protection and the dangerous point, expressed in mm.
К	advance speed of the body or parts of the body, expressed in mm per second. K values can be: K = 2000 mm per second for safety distances up to 500 mm K = 1600 mm per second for safety distances over 500 mm
Т	Total machine stopping time including: T1 response time of the protection device in seconds T2 machine reaction time to stop the hazardous operation, in seconds.
С	additional distance expressed in mm.



MODELS WITH RESOLUTION (Detection Capability) 14mm - 30 mm - 40 mm

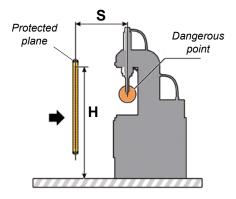
Curtains with resolution for fingers detection. Curtain resolution (d) 14 mm

Curtains with resolution for hands detection.

Curtain resolution (d) 30 - 40 mm







Calculating the minimum safety distance (S)

Refer to the general formula for the safety distance calculation.

$$S = K \times T + C$$

 $S = 2000 \times T + 8 \times (d-14)$

If the formula provides as a result: S>500 it's possible to use

$$K=1600$$

S = $1600xT + 8x(d-14)$

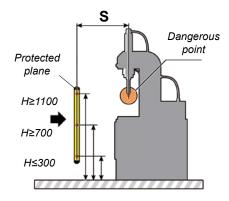
(with C = 8x(d-14))

- The S distance must not be less than 100mm
- · If the resulting distance S is greater than 500 mm, you can recalculate the distance using K = 1600.
- In this case the distance must still not be less than 500 mm.

MODELS WITH 2/3/4 beams

Body detection curtains. Curtain with 2/3/4 beams





Refer to the general formula for the safety distance calculation.

> $S = K \times T + C$ S = 1600xT + 850

Recommended height according to the number of beams

N°	Recommended height					
2	400 - 900 mm					
3	300 - 700 - 1100 mm					
4	300 - 600 - 900 - 1200 mm					

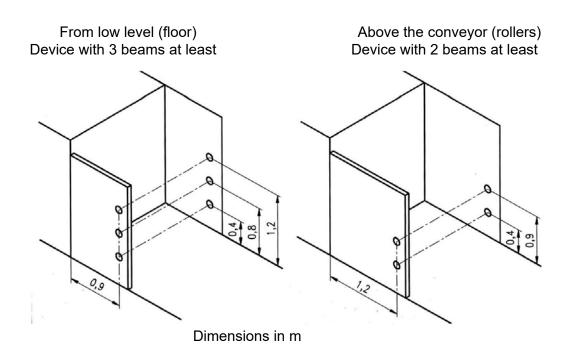


The S distance must not be less than 100 mm

If the resulting distance S is greater than 500 mm, it is possible to recalculate the distance using K = 1600 but in this case the distance must still not be less than 500 mm



- If the distance between the muting sensors is lower than required, the SAFEGATE safety function is not guaranteed.
- For applications on packaging machines (palletizers and unpalletizers), follow the instructions in European standard EN 415-4, which are repeated here.

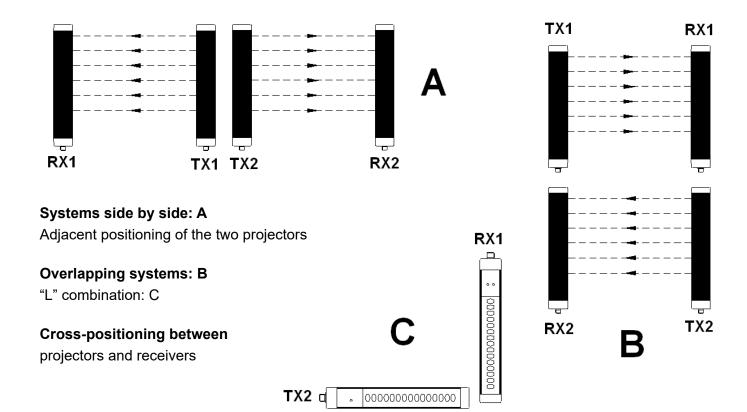




MULTIPLE SYSTEMS

When using multiple SAFEGATE systems, it is necessary to avoid them interfering optically with one another: position the elements so that the beam emitted by the system Emitter is received only by the respective Receiver.

The following figure shows some examples of correct positioning between the two photoelectric systems. An incorrect positioning may cause interference, leading to an abnormal operation.





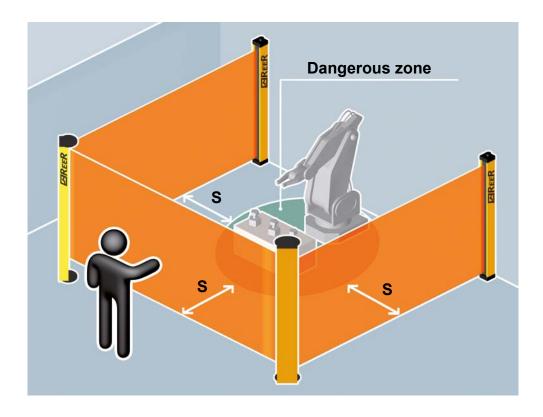
USE OF DEFLECTING MIRRORS

For the protection or control of multiple accessed areas, one or more deflecting mirrors can be used in addition to the Emitter and the Receiver.

The deflecting mirrors allow in fact returning the optical beams generated by the Emitter on multiple sides.

If you want to deflect by 90° the beams emitted by the Emitter, the perpendicular to the surface of the mirror should make a 45° angle with the direction of the beams.

The following figure shows an application in which two deflecting mirrors are used to make a "U" protection.

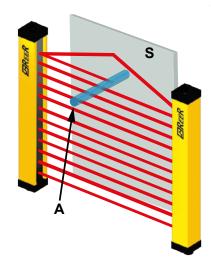


When making use of deflecting mirrors consider the following rules:

- > Position the mirrors so that the minimum safety distance S is kept on each of the sides to access the hazardous area.
- > The working distance (range) is the sum of the lengths of all sides accessing the guarded area. (Please note that the maximum working range between Emitter and Receiver is reduced by 15% for each mirror used).
- When installing, pay particular attention to not to twist along the longitudinal axis of the mirror.
- Verify, by positioning near and on the Receiver axis, that in the first mirror you see the whole shape of the Emitter.
- It is recommended that you use no more than three deflecting mirrors.



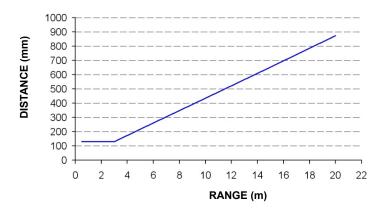
DISTANCE FROM REFLECTING SURFACES

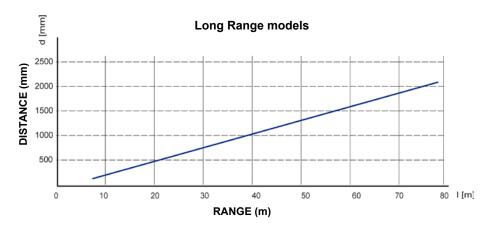


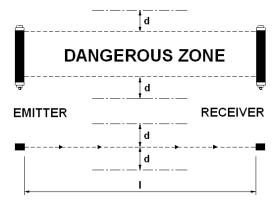
The presence of reflective surfaces located near the light curtain can cause spurious reflections preventing the detection. Referring to the following Figure object A is not detected due to the plane S reflecting the beam and thus closing the optical path between the Emitter and Receiver. It is therefore necessary to keep a minimum distance d between any reflecting surfaces and the protected area. For calculating the minimum distance d, it is recommended to use the values set for Type 4 devices according to IEC/EN 61496-2.

The following figure shows the above-mentioned values of the distance d based on the distance between the Emitter and the Receiver.

Standard models







Once the system is installed, verify any reflective surfaces which may intercept the beams, first in the centre and then near the Emitter and Receiver. During this procedure, the red LED on the Receiver must never go off.



MECHANICAL ASSEMBLY AND OPTICAL ALIGNMENT

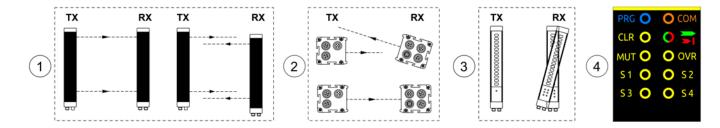
** The following operations must only be carried out by qualified personnel, otherwise you may lose the machine safety function.

> The Emitter and the Receiver must be mounted one in front of the other at a distance equal to or less than that indicated in the technical data. Using the supplied inserts and brackets, position the Emitter and the Receiver so that they are aligned and parallel to each other and with the connectors facing the same side.



STANDARD MODELS OPTICAL ALIGNMENT

- > The perfect alignment between Emitter and Receiver is essential for the smooth operation of the curtain; this operation is facilitated by observing the Emitter and Receiver signalling LEDs.
- Make electrical connections according to the directions of the dedicated chapter.
- Pay particular attention to the SAFEGATE model you are connecting. Connections may vary depending on the model.

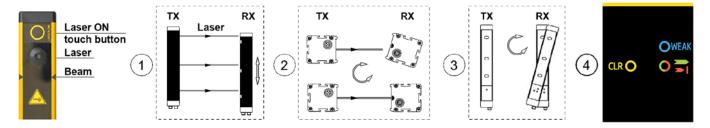


- > Place the optical axis of the first and last beams of the Emitter on the same axis as that of the corresponding beams on the Receiver.
- Move the Emitter to find the area within which the green LED on the Receiver stays on, then place the first transmitter beam (the one near the signal LED) at the centre of this area.
- Using this beam as a pivot, with small lateral displacements of the opposite end, move to the free guarded area condition, which in this situation will be indicated by turning on the green LED on the Receiver.
- > Firmly tighten the Emitter and the Receiver.
 - If the Emitter and the Receiver are mounted in areas subject to strong vibrations, in order not to compromise the operation of the circuits, it is necessary to use anti-vibration dampers.



ILP MODELS OPTICAL ALIGNMENT

- > The perfect alignment between Emitter and Receiver is essential for the smooth operation of the curtain; this operation is facilitated by observing the Emitter and Receiver signalling LEDs.
- Make electrical connections according to the directions of the dedicated chapter.
- The following warnings are fundamental for people's safety. Follow all the warnings carefully, to avoid risks of eye injuries.
- ** Never aim the laser source directly at the eyes of others or to your own.
- ** Keep the laser on only for the time which is strictly necessary to its professional use.
- > For the initial alignment, use a target that is larger than the width of the Receiver.
- Press the Laser ON touch button on the Emitter.
- > Move the Emitter to find the area within which the laser beam hits the target. Repeat the procedure if



necessary.

- > Place the optical axis of the first and last beams of the Emitter on the same axis as that of the corresponding beams on the Receiver.
- Move the Emitter to find the area within which the green LED on the Receiver stays on, then place the first Emitter beam (the one near the signal LED) at the centre of this area. The blue (weak signal) led must always stay OFF.
- > Using this beam as a pivot, with small lateral displacements of the opposite end, move to the free guarded area condition, which in this situation will be indicated by turning on the green LED on the
- > Firmly tighten the Emitter and the Receiver.
- If the Emitter and the Receiver are mounted in areas subject to strong vibrations, in order not to compromise the operation of the circuits, it is necessary to use anti-vibration dampers.



SM - SMO MODELS ELECTRICAL CONNECTIONS

Before proceeding to the electrical connections make sure that the available power supply voltage is in accordance with the data specified in the technical data.

- ** The Emitter and Receiver must be powered at a 24Vdc±20% (PELV, in compliance with the standard EN 60204-1 (Chapter 6.4)).
- ** Make sure the connectors are screwed down tightly to ensure correct barrier operation!
- ** In order to ensure the declared Environmental Protection Degree (IP65-IP67), it is mandatory to protect the unused connectors with the provided protection caps.

PRECAUTIONS

- Make the connection to earth before making any other connections.
- Perform all connections before energizing Safegate.
- The ground connection (0VDC) must be common to all system components.

WARNINGS ON CONNECTION CABLES

- Conductor Size: 0,25÷2,5 mm².
- It is recommended to keep SAFEGATE's power supply separate from that of other electrical power equipment (electric motors, inverters, frequency changers) or other sources of disturbance.
- For connections more than 20 m long, cables with a section of at least 0.5 mm² must be used (AWG16), (1 mm² for lengths over 50 m).

EMITTER CONNECTIONS

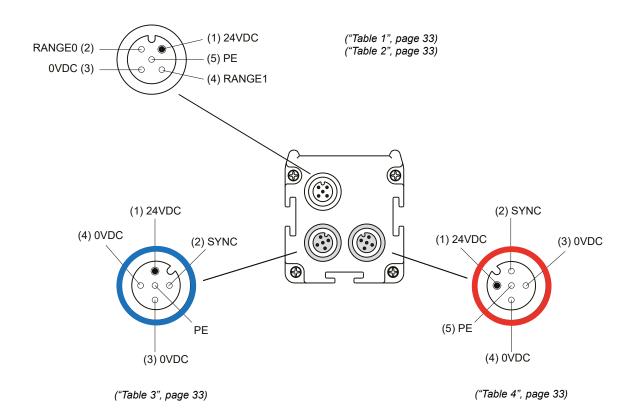






Table 1 RANGE/TEST SELECTION MALE CONNECTOR - M12 - 5-PIN							
PIN	PIN COLOUR SIGNAL IN/OUT DESCRIPTION ELECTRICAL LEVEL						
1	Brown	24VDC	-	Power supply 24 VDC	24VDC		
2	White	RANGE0	Input	Range selection	(see table "RANGE AND TEST SELECTION")		
3	Blue	0VDC	-	Power supply 0VDC	0VDC		
4	Black	RANGE1	Input	Range selection	(see table "RANGE AND TEST SELECTION")		
5	Grey	PE	-	EARTH CONNECTION	-		

	Table 2 RANGE AND TEST SELECTION - M12 - 5-PIN							
PIN 2	PIN 2 PIN 4 FUNCTION							
24VDC	0VDC	LOW range	(For range values, refer to the Technical Features table)					
0VDC	24VDC	24VDC HIGH range						
0VDC	OVDC Curtain under TEST (Refer to paragraph "TEST FUNCTION")							
24VDC	24VDC - Condition not allowed							

	Table 3 FEMALE CONNECTOR POWER SUPPLY SENSORS MUTING 1 - 2 - M12 - 5-PIN							
PIN	PIN COLOUR SIGNAL IN/OUT DESCRIPTION ELECTRICAL LEVEL							
1	Brown	24VDC	-	Sensor Power Supply 24VDC	24VDC			
2	White	SYNC	Output	Synchronization with M5 arms	Proprietary coded signal			
3	Blue	0VDC	-	Sensor Power Supply 0VDC	0VDC			
4	Black	0VDC	-	Sensor Power Supply 0VDC	0VDC			
5	Grey	PE	-	EARTH CONNECTION	-			

	Table 4 FEMALE CONNECTOR POWER SUPPLY SENSORS MUTING 3 - 4 - M12 - 5-PIN						
PIN	PIN COLOUR SIGNAL IN/OUT DESCRIPTION ELECTRICAL LEVEL						
1	Brown	24VDC	1	Sensor Power Supply 24VDC	24VDC		
2	White	SYNC	Output	Synchronization with M5 arms	Proprietary coded signal		
3	Blue	0VDC	-	Sensor Power Supply 0VDC	0VDC		
4	Black	0VDC	-	Sensor Power Supply 0VDC	0VDC		
5	Grey	PE	-	EARTH CONNECTION	-		



RECEIVER CONNECTIONS

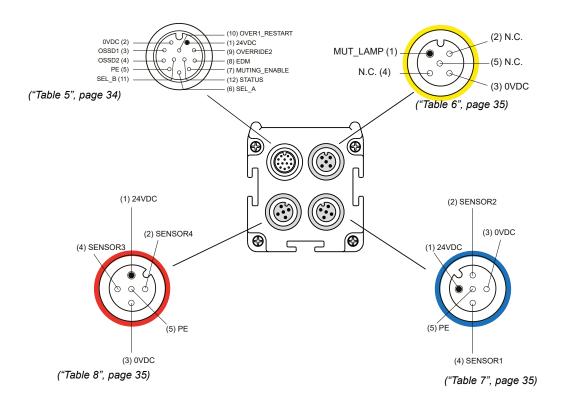


Table 5 MAIN MALE CONNECTOR - M12 - 12 PIN						
PIN	PIN COLOUR SIGNAL IN/OUT		DESCRIPTION	ELECTRICAL LEVEL		
1	Brown	24VDC	•	POWER SUPPLY 24 VDC	-	
2	Blue	0VDC	-	POWER SUPPLY 0VDC	-	
3	White	OSSD1	Output	STATIC SAFETY OUTPUTS	PNP active high	
4	Green	OSSD2	Output			
5	Pink	PE	-	EARTH CONNECTION	-	
6	Yellow	SEL_A	Input	MUTING CONFIGURATION	Refer to "SELECTION OF OPERATING MODES", page 36	
7	Black	MUT_ENABLE	Input	EXTERNAL MUTING ENABLE	Safegate considers the muting cycle correct if it detects a "MUTING ENABLE" signal rising edge before the use of the sensors	
8	Grey	EDM	Input	FEEDBACK K1/K2	External contactors feedback <u>"EDM", page 37</u>	
9	Red	OVERRIDE2	Input	OVERRIDE REQUEST	Refer to the section "OVERRIDE", page 38	
10	Violet	OVERRIDE1	lanut	OVERRIDE REQUEST	Refer to the section <u>"OVERRIDE"</u> , page 38	
10	violet	RESTART	Input	RESTART INTERLOCK	Refer to the table "RESTART (MANUAL OPERATION)", page 39	
11	Grey/ Pink	SEL_B	Input	MUTING CONFIGURATION	Refer to the section <u>"SELECTION OF OPERATING MODES"</u> , page 36	
12	Red/Blue	STATUS	Output	AUXILIARY OUTPUT	PNP active high	

When connecting high inductive loads to OSSDs, use suitable voltage suppressors on the outputs.



In free protected area conditions, the Receiver provides a voltage of 24VDC on BOTH outputs. Therefore, the established load must be connected between BOTH output terminals and the 0VDC.

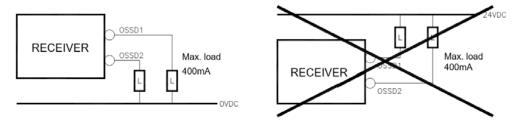


	Table 6 MUTING LAMP FEMALE CONNECTOR						
PIN							
1	Brown	MUT_LAMP	Output	Muting Lamp activation command	Active Muting 24VDC		
2	White	n.c.	-	-	-		
3	Blue	0VDC	-	Muting Lamp 0VDC	0VDC		
4	Black	n.c.	-	-			
5	Grey	n.c.	-	-	-		

Table 7 FEMALE CONNECTOR POWER SUPPLY SENSORS MUTING 1 - 2 - M12 - 5-PIN						
PIN	COLOUR	SIGNAL	IN/OUT	DESCRIPTION	ELECTRICAL LEVEL	
1	Brown	24VDC	-	Sensor Power Supply 24VDC	Positive	
2	White	SENSOR2	Input	SENSOR 2 Status	< 5VDC : CLEAR SENSOR 11÷30 VDC : ACTUATED SENSOR	
3	Blue	0VDC	-	Sensor Power Supply 0VDC	Negative	
4	Black	SENSOR1	Input	SENSOR 1 Status	< 5VDC : CLEAR SENSOR 11÷30 VDC : ACTUATED SENSOR	
5	Grey	PE	-	EARTH CONNECTION	-	

Table 8 FEMALE CONNECTOR POWER SUPPLY/SENSORS MUTING 3 - 4 - M12 - 5-PIN						
PIN	COLOUR	SIGNAL	IN/OUT	DESCRIPTION	ELECTRICAL LEVEL	
1	Brown	24VDC	-	Sensor Power Supply 24VDC	Positive	
2	White	SENSOR4	Input	SENSOR 4 Status	< 5VDC : CLEAR SENSOR 11÷30 VDC : ACTUATED SENSOR	
3	Blue	0VDC	-	Sensor Power Supply 0VDC	Negative	
4	Black	SENSOR3	Input	SENSOR 3 Status	< 5VDC : CLEAR SENSOR 11÷30 VDC : ACTUATED SENSOR	
5	Grey	PE	-	EARTH CONNECTION	-	

Using LX or TX configuration with 2 sensors: SENSOR1 wiring is mandatory, while the position of the second muting sensor is free between SENSOR2 and SENSOR3. SENSOR2: sensor arms MALX; SENSOR3: sensor arms MATX or external photocells.

TEST FUNCTION

By means of the test function, which simulates occupation of the protected area, it possible to verify the operation of the entire system by means of an external supervisor (e.g. PLC, control module, etc.). The SAFEGATE barrier system features an automatic self-diagnosis function that enables it to detect response time malfunctions (this time is declared for each model).

This fault detection system is always active and does not require any external intervention.

The TEST command is available in the case in which the user wishes to check the devices connected downstream of the light curtain (without physically intervening inside the guarded area). This command interrupts emission of the beams on the emitter and makes it possible to switch the OSSD from ON to OFF status as long as the command is active.

The minimum duration of the TEST function must be 40 msec.



SELECTION OF OPERATING MODES

The SAFEGATE receiver inputs (main male connector - M12 - 12pin) allow the configuration of the various operating modes.

It is therefore necessary, when switching on, to properly connect the SAFEGATE receiver inputs for proper operation, as shown below.

The following tables allow the user to configure the type of Muting to be adopted in terms of: MUTING MODE, TIMEOUT MUTING, OVERRIDE TYPOLOGY.



The incorrect setting of the Muting parameters by the operator compromises the safe operation of the barrier.

MANUAL MODE	SEL_A (pin 6)	SEL_B (pin 11)	MUTING MODE	MUTING TIMEOUT
	24VDC (1)	OSSD1 (3)	4 SENSORS, SEQUENTIAL	30 s
	24VDC (1)	OSSD2 (4)	4 SENSORS, SEQUENTIAL	∞
	OSSD2 (4)	OSSD1 (3)	2 SENSORS, "TX" MODE	30 s
	OSSD1 (3)	OSSD2 (4)	2 SENSORS, "TX" MODE	9 hours
	OSSD1 (3)	24VDC (1)	2 SENSORS, "L" MODE	30 s
	OSSD2 (4)	24VDC (1)	2 SENSORS, "L" MODE	9 hours
	OSSD2 (4)	OSSD2 (4)	4 SENSORS CONCURRENT	30 s
	OSSD1 (3)	OSSD1 (3)	4 SENSORS CONCURRENT	9 hours
	n.c. / 0VDC	n.c. / 0VDC	Configuration error	
	n.c. / 0VDC	n.c. / 0VDC	SPM/SPMO models: programming need	ed

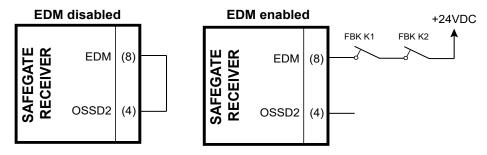
	SEL_A (pin 6)	SEL_B (pin 11)	MUTING MODE	MUTING TIMEOUT
	24VDC (1)	24VDC (1)	4 SENSORS, SEQUENTIAL	30 s
ш	STATUS (12)	STATUS (12)	4 SENSORS, SEQUENTIAL	∞
MODE	24VDC (1)	STATUS (12)	2 SENSORS, "TX" MODE	30 s
	STATUS (12)	24VDC (1)	2 SENSORS, "TX" MODE	9 hours
ΙĔ	STATUS (12)	OSSD1 (3)	2 SENSORS, "L" MODE	30 s
AUTOMATIC	OSSD1 (3)	STATUS (12)	2 SENSORS, "L" MODE	9 hours
AU.	STATUS (12)	OSSD2 (4)	4 SENSORS CONCURRENT	30 s
	OSSD2 (4)	STATUS (12)	4 SENSORS CONCURRENT	9 hours
	n.c. / 0VDC	n.c. / 0VDC	Configuration error	
	n.c. / 0VDC	n.c. / 0VDC	SPM/SPMO models: programming needed	



EDM

The EDM function (external K1 / K2 control) can be enabled / disabled via hardware:

Hardware configuration

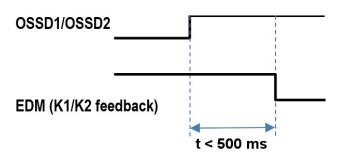


EDM ACTIVATED

SAFEGATE awaits a signal with inverse logic to the condition of the external contactors:

- OSSD1 / OSSD ON: External contacts K1/K2 closed: EDM = OPEN CIRCUIT
- ➤ OSSD1 / OSSD OFF: External contacts K1/K2 open: EDM = CLOSED CIRCUIT







OVERRIDE

SAFEGATE allows you to configure two different types of override; (See paragraph "MUTING OVERRIDE", page 23 for the description of the following function).

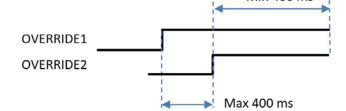
The OVERRIDE activation condition for the "L" Muting type requires only the light curtain occupation, while for the "T" Muting type the occupation of light curtain and at least one sensor is required.

OVERRIDE1 (pin 10)	OVERRIDE2 (pin 9)	SELEZIONE	
0	0	Override with Hold-To-Run Control	
0	1	Override with Pulse Control	
1	0	M/man a confirm matica	
1	1	Wrong configuration	

OVERRIDE WITH HOLD-TO-RUN CONTROL

The function starts with the simultaneous activation of the two OVERRIDE inputs according to the following table: Min 400 ms

OVERRIDE1 (pin 10)	OVERRIDE2 (Pin 9)	
0	0	u
1	1] ₩



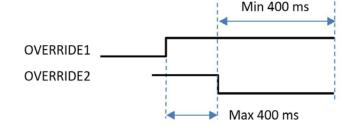
The function starts only if the signals are activated (24VDC) at the same time (within a maximum delay of 400 ms) and the control is kept active for at least 400 ms.

OVERRIDE WITH PULSE CONTROL

The function starts with the simultaneous activation of the two OVERRIDE inputs according to the following table:

D

OVERRIDE1 (pin 10)	OVERRIDE2 (Pin 9)	
0	1	
1	0	



The function starts only if the signals are activated at the same time (within a maximum delay of 400 ms) and the button is held pressed for at least 400 ms.



RESTART (MANUAL OPERATION)

Refer to "APPENDIX A1: SM - SMO MODELS WIRING SAMPLES - MANUAL MODE", page 41

Pin 10 has RESTART function. As a result of occupation of the protected area, OSSDs outputs will be deactivated (OFF) (Manual mode - start/restart interlock enabled).

- To reactivate OSSDs it needs to press and release the N.O. RESTART pushbutton connected to 24VDC. Verify the logical sequence: $0 \rightarrow 1 \rightarrow 0$.
- The high level (24Vdc) must be between 100 ms and 5 s.



- ** Use in manual mode (start/restart interlock enabled) is mandatory in case the safety device controls a gate to protect a dangerous area and a person, once crossed the gate, can stay in the hazardous area without being detected (use as a 'trip device' according to IEC 61496).
- ** The Restart command must be located outside the hazardous area, at a point where the hazardous area and the entire working area concerned are clearly visible.
- ** It must not be possible to reach the command from inside the hazardous area.

AUTOMATIC OPERATION

Refer to "APPENDIX A2: SM - SMO MODELS WIRING SAMPLES - AUTOMATIC MODE", page 43

In Automatic operating mode, the OSSD1 and OSSD2 safety outputs follow the status of the light curtain:

- with guarded area free, the outputs are ON.
- with guarded area occupied, the outputs are OFF.
- ** If the SAFEGATE light curtain is used in AUTOMATIC mode, it will not be equipped with a start/restart interlock circuit. In most applications, this safety function is mandatory. Carefully evaluate the risks analysis of your own application.

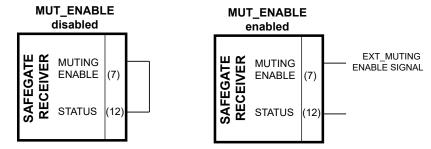
39



MUTING ENABLE

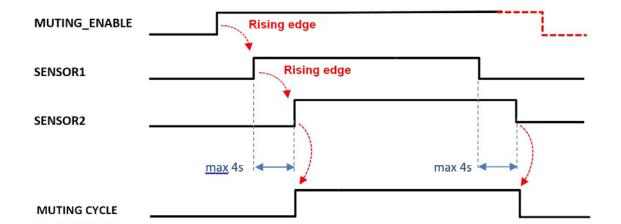
SAFEGATE can be configured in such a way that the muting cycle only starts after a signal of valid MUTING ENABLE.

Pin 7 (MUTING_ENABLE) and 12 (STATUS) must be connected at power up as indicated:



OPERATION					
Disabled The Muting cycle is activated without considering the MUTING ENABLE signal					
Enabled	The Muting cycle is activated only with the correct transition of the MUTING ENABLE signal (see figure below) and will terminate with the release of the last sensor.				

Muting Enable active: correct Muting sequence

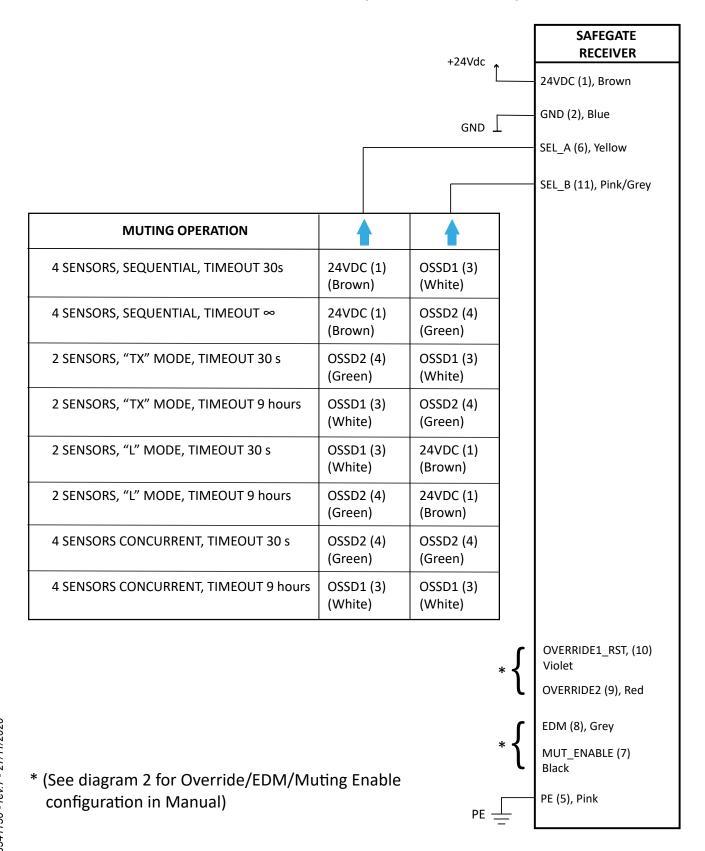




☑REER

APPENDIX A1: SM - SMO MODELS WIRING SAMPLES - MANUAL MODE

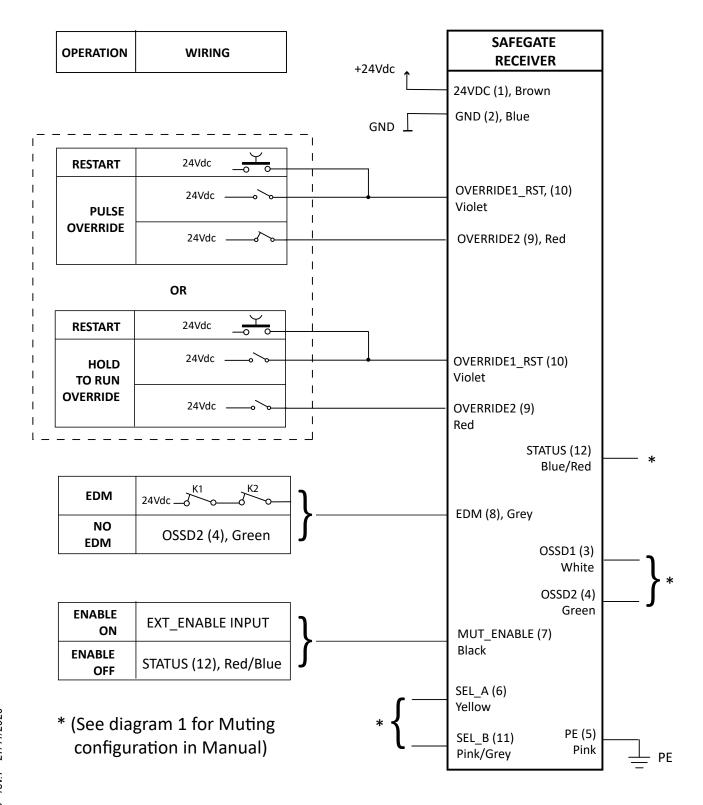
1 - WIRING CONFIGURATION **MUTING MODES OF OPERATION (MANUAL MODE)**







2 - WIRING CONFIGURATION Override/EDM/Muting Enable (MANUAL MODE)

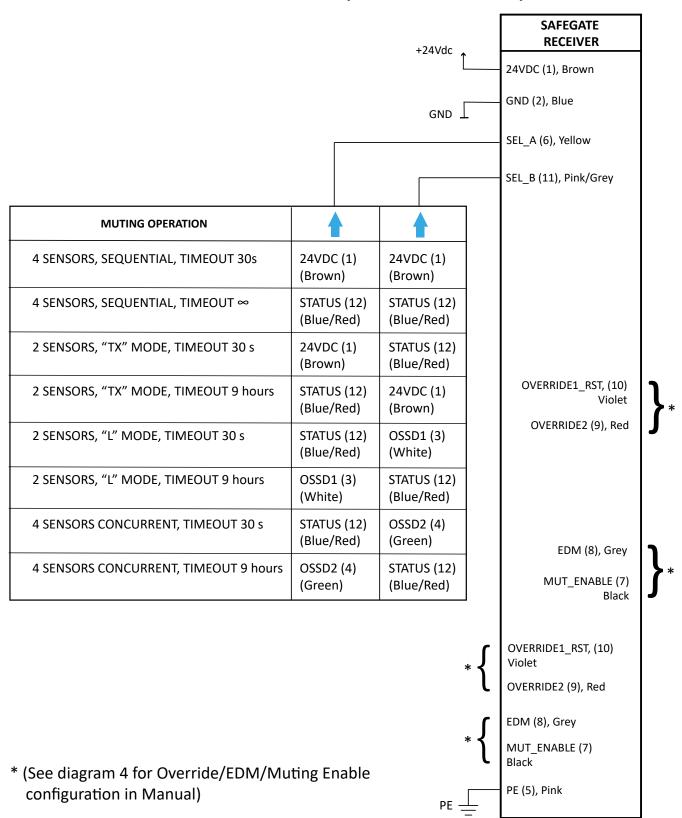




☑REER

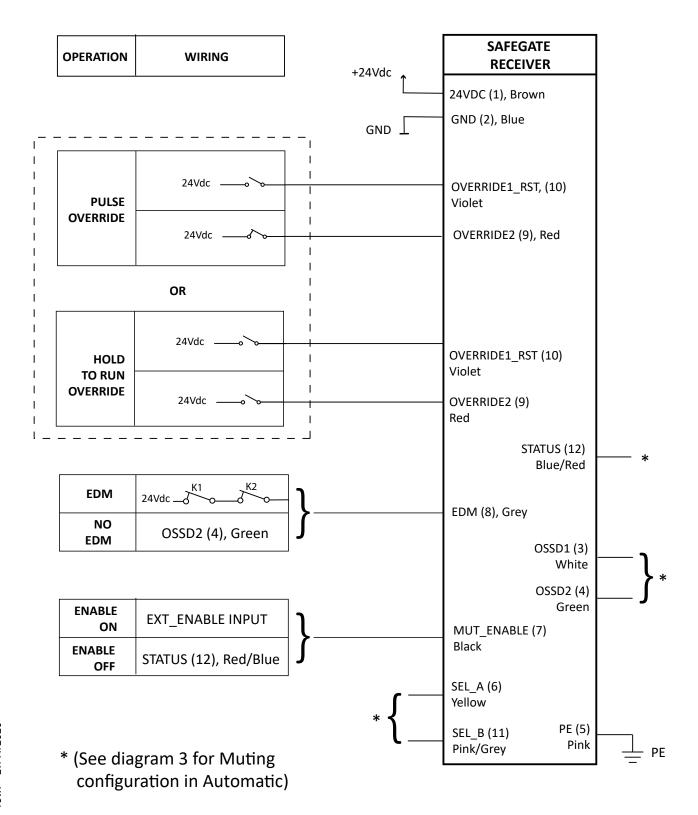
APPENDIX A2: SM - SMO MODELS WIRING SAMPLES - AUTOMATIC MODE

3 - WIRING CONFIGURATION **MUTING MODES OF OPERATION (AUTOMATIC MODE)**





4 - WIRING CONFIGURATION Override/EDM/Muting Enable (AUTOMATIC MODE)





SMP - SMPO MODELS ELECTRICAL CONNECTIONS

Before proceeding to the electrical connections make sure that the available power supply voltage is in accordance with the data specified in the technical data.

- ***** The Emitter and Receiver must be powered at a 24Vdc±20% (PELV, in compliance with the standard EN 60204-1 (Chapter 6.4)).
- ***** Make sure the connectors are screwed down tightly to ensure correct barrier operation!
- ** In order to ensure the declared Environmental Protection Degree (IP65-IP67), it is mandatory to protect the unused connectors with the provided protection caps.

PRECAUTIONS

- Make the connection to earth before making any other connections.
- Perform all connections before energizing Safegate.
- The ground connection (0VDC) must be common to all system components.

WARNINGS ON CONNECTION CABLES

- Conductor Size: 0,25÷2,5 mm².
- It is recommended to keep SAFEGATE's power supply separate from that of other electrical power equipment (electric motors, inverters, frequency changers) or other sources of disturbance.
- For connections more than 20 m long, cables with a section of at least 0.5 mm² must be used (AWG16), (1 mm² for lengths over 50 m).

EMITTER CONNECTIONS

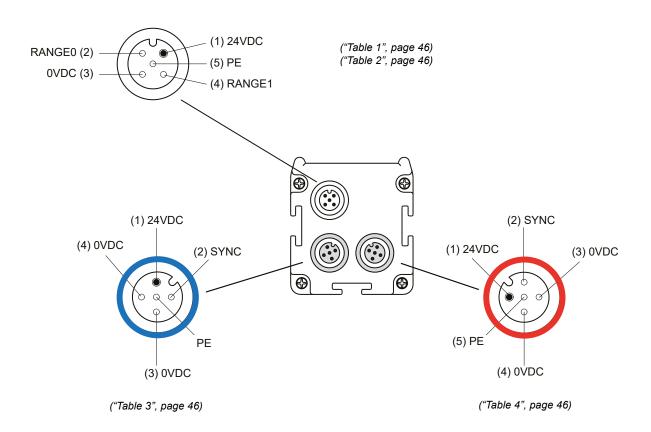




	Table 1 RANGE/TEST SELECTION MALE CONNECTOR - M12 - 5-PIN						
PIN	PIN COLOUR SIGNAL IN/OUT DESCRIPTION ELECTRICAL LEVEL						
1	Brown	24VDC	-	Power supply 24 VDC	24VDC		
2	White	RANGE0	Input	Range selection	(see table "RANGE AND TEST SELECTION")		
3	Blue	0VDC	-	Power supply 0VDC	0VDC		
4	Black	RANGE1	Input	Range selection	(see table "RANGE AND TEST SELECTION")		
5	Grey	PE	-	EARTH CONNECTION	-		

	Table 2 RANGE AND TEST SELECTION - M12 - 5-PIN						
PIN 2	PIN 4	FUNCTION					
24VDC	0VDC	LOW range	(For range values, refer to the <u>"TECHNICAL FEATURES", page 63</u>)				
0VDC	24VDC	HIGH range					
0VDC	0VDC	Curtain under TEST	(Refer to paragraph "TEST FUNCTION", page 49)				
24VDC	24VDC	-	Condition not allowed				

	Table 3 FEMALE CONNECTOR POWER SUPPLY SENSORS MUTING 1 - 2 - M12 - 5-PIN						
PIN	PIN COLOUR SIGNAL IN/OUT DESCRIPTION ELECTRICAL LEVEL						
1	Brown	24VDC	-	Sensor Power Supply 24VDC	24VDC		
2	White	SYNC	Output	Synchronization with M5 arms	Proprietary coded signal		
3	Blue	0VDC	-	Sensor Power Supply 0VDC	0VDC		
4	Black	0VDC	-	Sensor Power Supply 0VDC	0VDC		
5	Grey	PE	-	EARTH CONNECTION	-		

	Table 4 FEMALE CONNECTOR POWER SUPPLY SENSORS MUTING 3 - 4 - M12 - 5-PIN						
PIN	PIN COLOUR SIGNAL IN/OUT DESCRIPTION ELECTRICAL LEVEL						
1	Brown	24VDC	-	Sensor Power Supply 24VDC	24VDC		
2	White	SYNC	Output	Synchronization with M5 arms	Proprietary coded signal		
3	Blue	0VDC	-	Sensor Power Supply 0VDC	0VDC		
4	Black	0VDC	-	Sensor Power Supply 0VDC	0VDC		
5	Grey	PE	-	EARTH CONNECTION	-		



RECEIVER CONNECTIONS

Available configurations.

1. Configurations with hardware wiring:

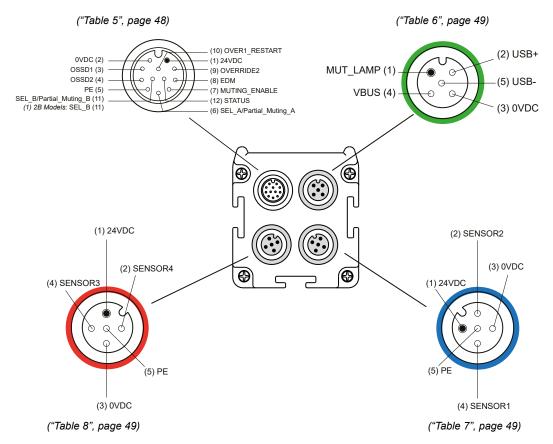
- If the operator wishes to configure SMP/SMPO models using a hardware wiring, it is necessary to refer to the diagrams in paragraphs "APPENDIX A1: SM - SMO MODELS WIRING SAMPLES - MANUAL MODE", page 40 and "APPENDIX A2: SM - SMO MODELS WIRING SAMPLES - AUTOMATIC MODE", page 42. The SAFEGATE Factory Settings do not provide any configuration.
- In case of already programmed Safegate (blue led ON) it is necessary to reset the existing configuration, using the "Safegate Configurator"; use the command "DELETE CONFIGURATION" (please refer to section "SAFEGATE CONFIGURATOR SOFTWARE", page 71) coming back at Factory Setting.

2. Configurations with "Safegate Configurator" software.

- If the operator wishes to configure the SMP/MPO models using the supplied software must connect pin 1 and 2 of the main connector of the receiver (DO NOT connected all others pin).
- If the operator wishes to switch from hardware to software configuration, must respect at power on the indication of the following table (main connector of the receiver):

SEL_A (pin 6)	SEL_B (pin 11)	MUT_ENABLE (pin 7)	EDM (pin 8)
0VDC	0VDC	0VDC	 0VDC, if not requested by the Software. Connected to 24VDC (through series of contacts N.C. of external relays)
(or open circuit)	(or open circuit)	(or open circuit)	

To check the SMP/SMPO model wiring with software configuration, refer to the paragraph "APPENDIX B: SMP - SMPO MODELS WIRING SAMPLE", page 56 diagrams.

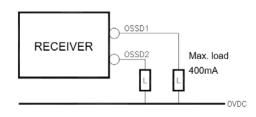


(1) Partial Muting B is not available for 2B Models.



	Table 5 MAIN MALE CONNECTOR - M12 - 12 PIN							
PIN	COLOUR	SIGNAL	IN/OUT	DESCRIPTION	ELECTRICAL LEVEL			
1	Brown	24VDC	-	POWER SUPPLY 24 VDC	-			
2	Blue	0VDC	-	POWER SUPPLY 0VDC	-			
3	White	OSSD1	Output	STATIC SAFETY OUTPUTS	DND active high			
4	Green	OSSD2	Output	STATIC SAFETT OUTFUTS	FINE active might			
5	Pink	PE	-	EARTH CONNECTION	-			
6	Yellow	SEL_A	Input	MUTING CONFIGURATION	Refer to "SELECTION OF OPERATING MODES", page 50			
	10.1011	PARTIAL_MUTING_A		CONTROL PARTIAL MUTING	The level of the "PARTIAL MUTING", page 54 is decided through the configuration software			
7	Black	MUT_ENABLE	Input	EXTERNAL MUTING ENABLE	Safegate considers the muting cycle correct if it detects a "MUTING ENABLE", page 53 signal rising edge before the use of the sensors			
8	Grey	EDM	Input	FEEDBACK K1/K2	External contactors feedback "EDM", page 50			
9	Red	OVERRIDE2	Input	OVERRIDE REQUEST	Refer to the section "OVERRIDE (pc programming)", page 51			
40	\ /: - I - 4	OVERRIDE1		OVERRIDE REQUEST	Refer to the section "OVERRIDE (pc programming)", page 51			
10	Violet	RESTART	Input	RESTART INTERLOCK	Refer to the tsection "RESTART (MANUAL OPERATION)", page 52			
11	Grey/	SEL_B	-	MUTING CONFIGURATION	Refer to "SELECTION OF OPERATING MODES", page 50			
	Pink	PARTIAL_MUTING_B(2)	Input	CONTROL PARTIAL MUTING	The level of the "PARTIAL MUTING", page 54 is decided through the configuration software			
12	Red/Blue	STATUS	Output	AUXILIARY OUTPUT	PNP active high, refer to <u>"SETTING CURTAIN GENERAL PARAMETERS"</u> , page 80			

- (2) Partial Muting B is not available for 2B Models.
- When connecting high inductive loads to OSSDs, use suitable voltage suppressors on the outputs.
- In free protected area conditions, the Receiver provides a voltage of 24VDC on BOTH outputs. Therefore, the established load must be connected between BOTH output terminals and the 0VDC.



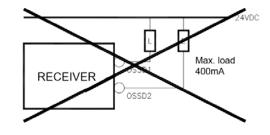




	Table 6 MUTING LAMP FEMALE CONNECTOR, CURTAIN PROGRAMMING							
PIN	PIN COLOUR MODEL IN/OUT DESCRIPTION ELECTRICAL LEVEL							
1	Brown	MUT_LAMP	Output	Muting Lamp activation command	Active Muting 24VDC			
2	White	USB+	In/Out	USB data	-			
3	Blue	0VDC	-	Muting Lamp 0VDC	0VDC			
4	Black	VBUS	Input	USB Power supply	5VDC			
5	Grey	USB-	In/Out	USB data	-			

	Table 7 FEMALE CONNECTOR POWER SUPPLY SENSORS MUTING 1 - 2 - M12 - 5-PIN						
PIN	PIN COLOUR SIGNAL IN/OUT DESCRIPTION ELECTRICAL LEVEL						
1	Brown	24VDC	-	Sensor Power Supply 24VDC	Positive		
2	White	SENSOR2	Input	SENSOR 2 Status	< 5VDC : CLEAR SENSOR 11÷30 VDC : ACTUATED SENSOR		
3	Blue	0VDC	-	Sensor Power Supply 0VDC	Negative		
4	Black	SENSOR1	Input	SENSOR 1 Status	< 5VDC : CLEAR SENSOR 11÷30 VDC : ACTUATED SENSOR		
5	Grey	PE	-	EARTH CONNECTION	-		

	Table 8 FEMALE CONNECTOR POWER SUPPLY/SENSORS MUTING 3 - 4 - M12 - 5-PIN						
PIN	COLOUR	SIGNAL	IN/OUT	DESCRIPTION	ELECTRICAL LEVEL		
1	Brown	24VDC	-	Sensor Power Supply 24VDC	Positive		
2	White	SENSOR4	Input	SENSOR 4 Status	< 5VDC : CLEAR SENSOR 11÷30 VDC : ACTUATED SENSOR		
3	Blue	0VDC	-	Sensor Power Supply 0VDC	Negative		
4	Black	SENSOR3	Input	SENSOR 3 Status	< 5VDC : CLEAR SENSOR 11÷30 VDC : ACTUATED SENSOR		
5	Grey	PE	-	EARTH CONNECTION	-		

Using LX or TX configuration with 2 sensors: SENSOR1 wiring is mandatory, while the position of the second muting sensor is free between SENSOR2 and SENSOR3. SENSOR2: sensor arms MALX; SENSOR3: sensor arms MATX or external photocells.

TEST FUNCTION

By means of the test function, which simulates occupation of the protected area, it possible to verify the operation of the entire system by means of an external supervisor (e.g. PLC, control module, etc.).

The SAFEGATE barrier system features an automatic self-diagnosis function that enables it to detect response time malfunctions (this time is declared for each model).

This fault detection system is always active and does not require any external intervention.

The TEST command is available in the case in which the user wishes to check the devices connected downstream of the light curtain (without physically intervening inside the guarded area). This command interrupts emission of the beams on the emitter and makes it possible to switch the OSSD from ON to OFF status as long as the command is active.

The minimum duration of the TEST function must be 40 msec.



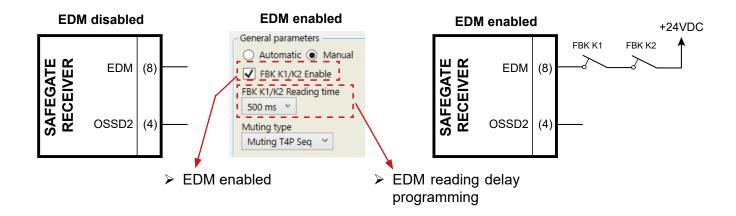
SELECTION OF OPERATING MODES

Configuration of the various modes of operation of the SMP/SMPO models is achieved thanks to the SAFEGATE CONFIGURATOR software.

** The incorrect setting of the Muting parameters by the operator compromises the safe operation of the barrier.

EDM

The EDM function (external K1 / K2 control) can be enabled / disabled via software:



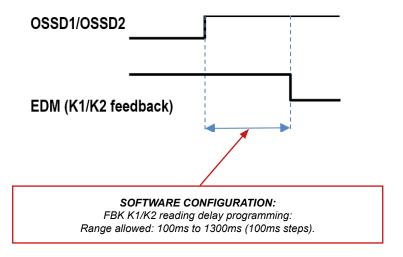
EDM ACTIVATED

SAFEGATE awaits a signal with inverse logic to the condition of the external contactors:

- OSSD1 / OSSD ON: External contacts K1/K2 closed: EDM = OPEN CIRCUIT
- OSSD1 / OSSD OFF: External contacts K1/K2 open: EDM = CLOSED CIRCUIT

Connect the pin 8 of the 12 pole connector to the Receiver as shown above.

The time allowed to elapse from the activation of the OSSD outputs and the opening of the FBK contacts must be the one indicated in the figure below.







OVERRIDE (PC PROGRAMMING)

SAFEGATE allows the operator to configure two different types of override; (See paragraph "MUTING OVERRIDE", page 23 for the description of the following function).

OVERRIDE1 (pin 10)	OVERRIDE2 (pin 9)	SELEZIONE
0	0	Override with Hold-To-Run Control
0	1	Override with Pulse Control

OVERRIDE WITH HOLD-TO-RUN CONTROL

Thanks to the programming software, the operator can choose what kind of OVERRIDE enable (in this case HOLD-TO-RUN CONTROL) and its timeout.

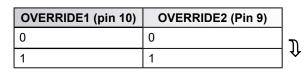
→

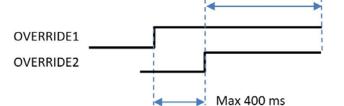
With occupied sensors: When selected, the activation of at least one sensor AND the BREAK condition of the light curtain are required to activate the OVERRIDE.

The function starts with the simultaneous activation of the two OVERRIDE inputs according to the following table:

OVERRIDE ✓ Override enabled ✓ With Occupied Sensors Timeout Override Mode 15 min V Hold-to-run-Control Y Hold-to-run-Control Pulse Control

Min 400 ms





The function only starts the signals are activated (24VDC) at the same time (within a maximum delay of 400 ms) and the control is kept active for at least 400 ms.

OVERRIDE WITH PULSE CONTROL

Thanks to the programming software, the operator can choose what kind of OVERRIDE enable (in this case PULSE CONTROL) and its timeout.

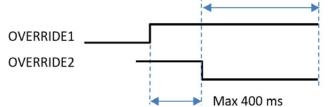
With occupied sensors: When selected, the activation of at least one sensor and the BREAK condition of the light curtain are required to activate the OVERRIDE.

The function starts with the simultaneous activation of the two OVERRIDE inputs according to the following table:

✓ Override ena		
✓ With Occupie	ed Sensors	
Timeout	Override Mode	
THITCOUL		

Min 400 ms

OVERRIDE1 (pin 10)	OVERRIDE2 (Pin 9)	
0	1	س [
1	0] ₩



The function starts only if the signals are activated at the same time (within a maximum delay of 400 ms) and the button is held pressed for at least 400 ms.

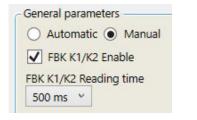


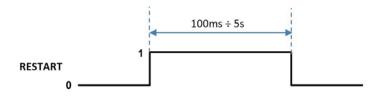
RESTART (MANUAL OPERATION)

The choice between MANUAL or AUTOMATIC mode of operation is possible thanks to the SAFEGATE CONFIGURATOR software. In Manual mode Pin 10 has RESTART function.

As a result of occupation of the protected area, outputs will be deactivated (start/restart interlock enabled).

- -To reactivate OSSDs it needs to press and release the N.O. RESTART pushbutton connected to 24VDC. *Verify the logical sequence:* $0 \rightarrow 1 \rightarrow 0$.
- The high level (24Vdc) time must be between 100 ms and 5 s.





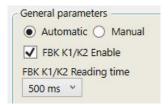
- Use in manual mode (start/restart interlock enabled) is mandatory in case the safety device controls a gate to protect a dangerous area and a person, once crossed the gate, can stay in the hazardous area without being detected (use as a 'trip device' according to IEC 61496).
- The Restart command must be located outside the hazardous area, at a point where the hazardous area and the entire working area concerned are clearly visible.
- ** It must not be possible to reach the command from inside the hazardous area.

AUTOMATIC OPERATION

The choice between MANUAL or AUTOMATIC mode of operation is achieved thanks to the SAFEGATE CONFIGURATOR software.

In Automatic operating mode, the OSSD1 and OSSD2 safety outputs follow the status of the light curtain:

- with guarded area free, the outputs are ON.
- > with guarded area occupied, the outputs are OFF.

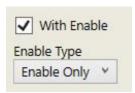


If the SAFEGATE light curtain is used in AUTOMATIC mode, it will not be equipped with a start/restart interlock circuit. In most applications, this safety function is mandatory. Carefully evaluate the risks analysis of your own application.

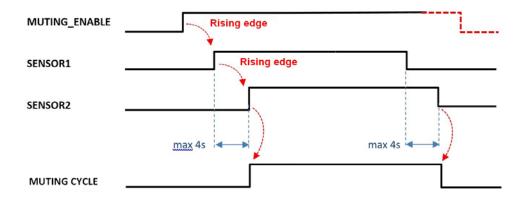


MUTING ENABLE

SAFEGATE can be configured in such a way that the muting cycle only starts after a valid MUTING ENABLE signal. Furthermore is possible to choose if the MUTING ENABLE only enables or also disables the Muting function thanks to the programming software.

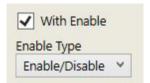


Muting Enable active: correct Muting sequence

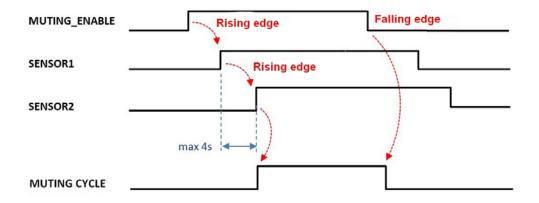


MUTING ENABLE/DISABLE

SAFEGATE can be configured in such a way that the muting cycle only starts after a valid MUTING ENABLE/DISABLE signal. Furthermore is possible to choose if the MUTING ENABLE only enables or also <u>disables</u> the Muting function thanks to the programming software.



Muting Enable/Disable active: Correct Muting sequence



53



PARTIAL MUTING

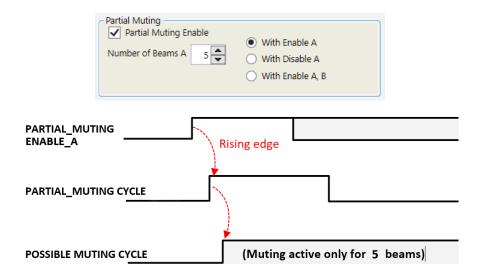
Three types of partial Muting are distinguished and, for all of them, the "Partial Muting" input pins (pin 6, 11 of the M12 connector of the receiver) must be used.

1) Partial Muting with Enable A

With this option, the Partial Muting function is normally deactivated. To activate this function, the input signal (pin 6 of the receiver) must switch from LO to HI (rising edge) before starting the Muting cycle. The variation of this input signal enables the Partial Muting function only for the first n selected beams (e.g. with 5 beams as in figure below).



This activation only applies to a STAND-ALONE MUTING CYCLE; It is therefore necessary to reconfirm Partial Muting activation before any new Muting function request (refer to the timing below).

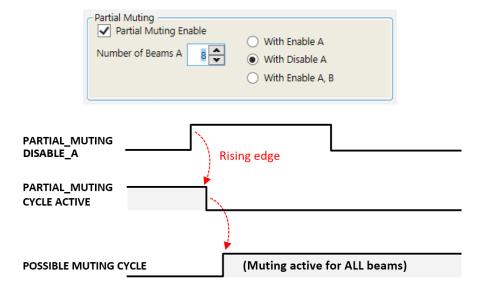


2) Partial Muting with Disable A

With this option the Partial Muting function is normally active (e.g. with 8 beams as in figure below). To activate this function, the input signal (pin 6 of the receiver) must switch from LO to HI (rising edge) before starting the Muting cycle. The changing of that input signal therefore disables the Partial Muting function.



This activation only applies to a STAND-ALONE MUTING CYCLE; it is therefore necessary to reconfirm the partial Muting deactivation before any new Muting function request (refer to the timing below).





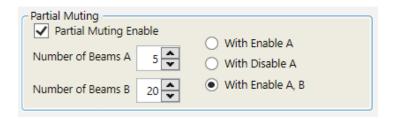
3) Partial Muting with Enable A,B (option not available for 2B Models)

With this option, the Partial Muting function is normally deactivated. To activate this function, the input signals (pin 6 of the receiver for SEL_A/Partial_Muting_A or pin 11 for SEL_B/Partial_Muting_B) must switch from LO to HI (rising edge) before starting the Muting cycle following the table:

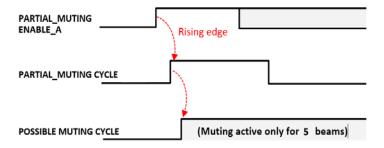
	SEL_A/Partial_Muting_A (pin 6)	SEL_B/Partial_Muting_B (pin 11)	THRESHOLD
ELECTRICAL		0VDC	А
LEVEL	0VDC	_	В

The variation of these input signal enables the Partial Muting function only for the first n selected beams (e.g. THRESHOLD A = 5 / THRESHOLD B = 20 beams as in figure below).

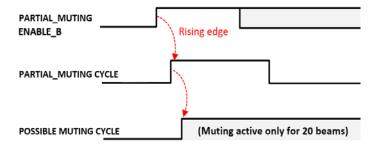
- In Enable A, B mode of operation ONLY ONE THRESHOLD CAN BE ACTIVATED; the operator can only specify the number of beams for the shold A and the shold B.
- This activation only applies to a STAND-ALONE MUTING CYCLE; It is therefore necessary to reconfirm Partial Muting activation before any new Muting function request (refer to the timing below).



THRESHOLD A



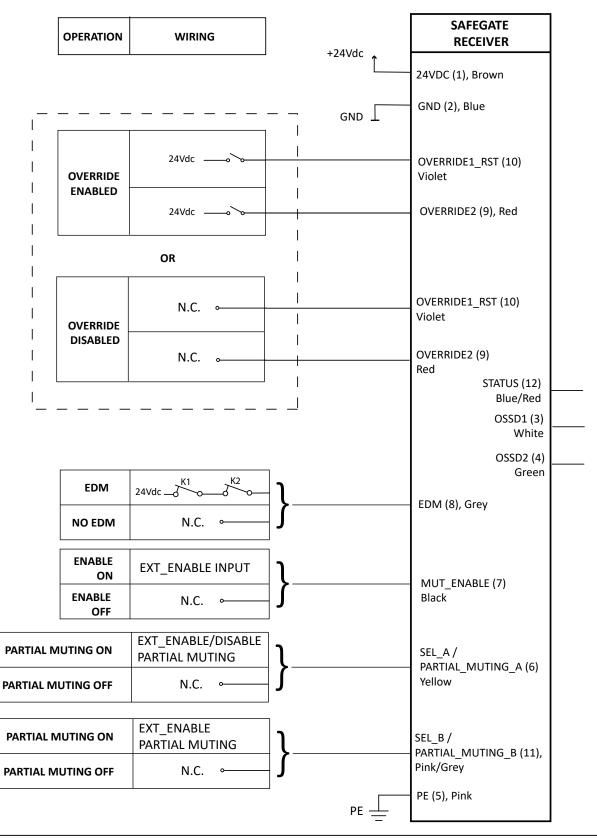
THRESHOLD B





APPENDIX B: SMP - SMPO MODELS WIRING SAMPLE

5 - SOFTWARE CONFIGURATION





S MODELS ELECTRICAL CONNECTIONS

Before proceeding to the electrical connections make sure that the available power supply voltage is in accordance with the data specified in the technical data.

The Emitter and Receiver must be powered at a 24Vdc±20% (PELV, in compliance with the standard EN 60204-1 (Chapter 6.4)).

** Make sure the connectors are screwed down tightly to ensure correct barrier operation!

** In order to ensure the declared Environmental Protection Degree (IP65-IP67), it is mandatory to protect the unused connectors with the provided protection caps.

PRECAUTIONS

- Make the connection to earth before making any other connections.
- Perform all connections before energizing Safegate.
- The ground connection (0VDC) must be common to all system components.

WARNINGS ON CONNECTION CABLES

Conductor Size: 0,25÷2,5 mm².

It is recommended to keep SAFEGATE's power supply separate from that of other electrical power equipment (electric motors, inverters, frequency changers) or other sources of disturbance.

For connections more than 20 m long, cables with a section of at least 0.5 mm² must be used (AWG16), (1 mm² for lengths over 50 m).

> ("Table 1", page 57) ("Table 2", page 57)

EMITTER CONNECTIONS

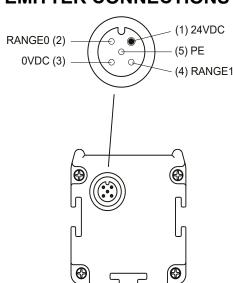


	Table 1 MALE CONNECTOR - M12 - 5 PIN						
PIN	COLOUR	SIGNAL	IN/OUT	DESCRIPTION	ELECTRICAL LEVEL		
1	Brown	24VDC	-	Power supply 24 VDC	Positivo		
2	White	RANGE0	Input	Range selection	(see table <u>"RANGE AND TEST SELECTION"</u>)		
3	Blue	0VDC	-	Power supply 0VDC	Negativo		
4	Black	RANGE1	Input	Range selection	(see table <u>"RANGE AND TEST SELECTION"</u>)		
5	Grey	PE	-	EARTH CONNECTION	-		

	Table 2 RANGE AND TEST SELECTION						
PIN 2	PIN 2 PIN 4 FUNCTION						
24VDC	0VDC	LOW range	(For range values, refer to the Technical Features table)				
0VDC	24VDC	HIGH range					
0VDC	0VDC	Curtain under TEST	(Refer to paragraph <u>"TEST FUNCTION", page 59</u>)				
24VDC	24VDC	-	Condition not allowed				



RECEIVER CONNECTIONS

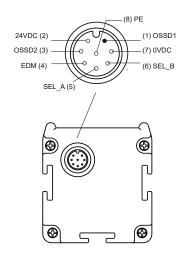
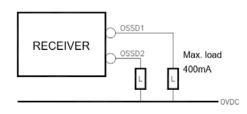


	Table 3 MAIN MALE CONNECTOR – M12- 8-PIN							
PIN	COLOUR	SIGNAL	IN/OUT	DESCRIPTION	ELECTRICAL LEVEL			
2	Brown	24VDC	-	POWER SUPPLY 24VDC	-			
7	Blue	0VDC	-	POWER SUPPLY 0VDC	-			
1	White	OSSD1	Output	STATIC SAFETY	PNP active high			
3	Green	OSSD2	Output	OUTPUTS	FINE active night			
8	Red	PE	-	EARTH CONNECTION				
4	Yellow	EDM	Input	K1/K2 FEEDBACK	Feedback from external counters			
5	Grey	SEL_A	Input	OPERATING MODE CONFIGURATION	Refer to the table <u>"SELECTION OF OPERATING MODES"</u> , page 58			
6	Pink	SEL_B	Input	OPERATING MODE CONFIGURATION	Refer to the table <u>"SELECTION OF OPERATING MODES"</u> , page 58			

When connecting high inductive loads to OSSDs, use suitable voltage suppressors on the outputs.

In free protected area conditions, the Receiver provides a voltage of 24VDC on BOTH outputs. Therefore, the established load must be connected between BOTH output terminals and the 0VDC.



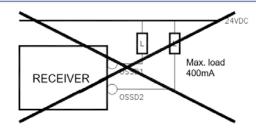


Table 4 SELECTION OF OPERATING MODES						
	CONNECTIONS		OPERATION			
EXT_SEL_A (PIN 5) connected to : ext_OSSD1 (PIN 1)	EXT_SEL_B (PIN 6) connected to : ext_OSSD2 (PIN 3)	EXT_K1_K2 (PIN 4) connected to : 0VDC	AUTOMATIC no EDM			
EXT_SEL_A (PIN 5) connected to : ext_OSSD2 (PIN 3)	EXT_SEL_B (PIN 6) connected to : ext_OSSD1 (PIN 1)	EXT_K1_K2 (PIN 4) connected to: 24VDC (through series of contacts N.C. of external relays)	AUTOMATIC with EDM			
EXT_SEL_A (PIN 5) connected to : 24VDC (PIN 2)	EXT_SEL_B (PIN 6) connected to : 24VDC (PIN 2) (through the RESTART pushbutton)	EXT_K1_K2 (PIN 4) connected to : 0VDC	MANUAL no EDM			
EXT_SEL_A (PIN 5) connected to: 24VDC (PIN 2) (through the RESTART pushbutton)	EXT_SEL_B (PIN 6) connected to : 24VDC (PIN 2)	EXT_K1_K2 (PIN 4) connected to: 24VDC (through series of contacts N.C. of external relays)	MANUAL with EDM			



TEST FUNCTION

By means of the test function, which simulates occupation of the protected area, it possible to verify the operation of the entire system by means of an external supervisor (e.g. PLC, control module, etc.).

The SAFEGATE barrier system features an automatic self-diagnosis function that enables it to detect response time malfunctions (this time is declared for each model).

This fault detection system is always active and does not require any external intervention.

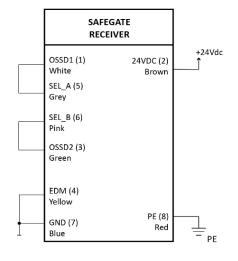
The TEST command is available in the case in which the user wishes to check the devices connected downstream of the light curtain (without physically intervening inside the guarded area). This command interrupts emission of the beams on the emitter and makes it possible to switch the OSSD from ON to OFF status as long as the command is active.



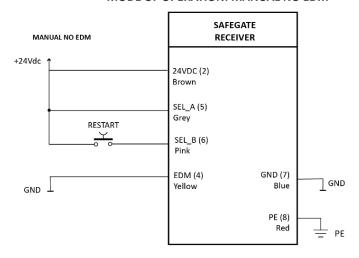
The minimum duration of the TEST function must be 40 msec.

APPENDIX C: S MODELS WIRING SAMPLES

MODE OF OPERATION: AUTOMATIC NO EDM

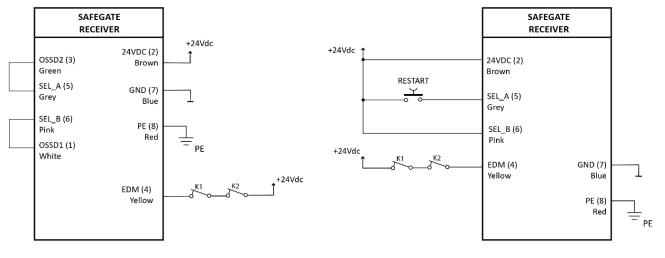


MODE OF OPERATION: MANUAL NO EDM



MODE OF OPERATION: AUTOMATIC WITH EDM

MODE OF OPERATION: MANUAL WITH EDM





S-A MODELS ELECTRICAL CONNECTIONS

Before proceeding to the electrical connections make sure that the available power supply voltage is in accordance with the data specified in the technical data.

The Emitter and Receiver must be powered at a 24Vdc±20% (PELV, in compliance with the standard EN 60204-1 (Chapter 6.4)).

** Make sure the connectors are screwed down tightly to ensure correct barrier operation!

** In order to ensure the declared Environmental Protection Degree (IP65-IP67), it is mandatory to protect the unused connectors with the provided protection caps.

PRECAUTIONS

- Make the connection to earth before making any other connections.
- Perform all connections before energizing Safegate.
- The ground connection (0VDC) must be common to all system components.

WARNINGS ON CONNECTION CABLES

Conductor Size: 0,25÷2,5 mm².

It is recommended to keep SAFEGATE's power supply separate from that of other electrical power equipment (electric motors, inverters, frequency changers) or other sources of disturbance.

For connections more than 20 m long, cables with a section of at least 0.5 mm2 must be used (AWG16), (1 mm² for lengths over 50 m).

("Table 1", page 60) ("Table 2", page 60)

EMITTER CONNECTIONS

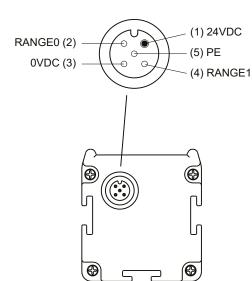


	Table 1 MALE CONNECTOR - M12 - 5 PIN						
PIN	COLOUR	SIGNAL	IN/OUT	DESCRIPTION	ELECTRICAL LEVEL		
1	Brown	24VDC	-	Power supply 24 VDC	Positive		
2	White	RANGE0	Input	Range selection	(see table <u>"RANGE AND TEST SELECTION"</u>)		
3	Blue	0VDC	-	Power supply 0VDC	Negative		
4	Black	RANGE1	Input	Range selection	(see table <u>"RANGE AND TEST SELECTION"</u>)		
5	Grey	PE	-	EARTH CONNECTION	-		

	Table 2 RANGE AND TEST SELECTION							
PIN 2	PIN 2 PIN 4 FUNCTION							
24VDC	0VDC	LOW range	(For range values, refer to the Technical Features table)					
0VDC	24VDC	HIGH range						
0VDC	0VDC	Curtain under TEST	(Refer to paragraph <u>"TEST FUNCTION", page 62</u>)					
24VDC	24VDC - Condition not allowed							



RECEIVER CONNECTIONS

("Table 3", page 61)

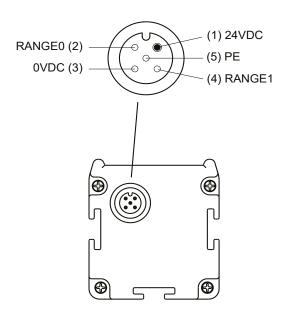
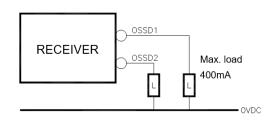
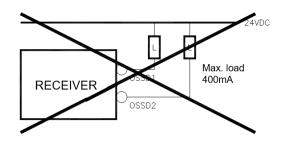


	Table 3 MAIN MALE CONNECTOR - M12 - 5 PIN							
PIN	COLOUR	SIGNAL	IN/OUT	DESCRIPTION	ELECTRICAL LEVEL			
1	Brown	24VDC	-	Power supply 24VDC	-			
2	White	OSSD1	Output	Static Safety Output	PNP active high			
3	Blue	0VDC	-	Power supply 0VDC	-			
4	Black	OSSD2	Output	Static Safety Output	PNP active high			
5	Grey	PE	-	Earth connection	-			

When connecting high inductive loads to OSSDs, use suitable voltage suppressors on the outputs.

In free protected area conditions, the Receiver provides a voltage of 24VDC on both outputs. Therefore, the established load must be connected between both output terminals and the OVDC.







AUTOMATIC OPERATION

In Automatic operating mode, the OSSD1 and OSSD2 safety outputs follow the status of the light curtain:

- with guarded area free, the outputs are ON.
- > with guarded area occupied, the outputs are OFF.



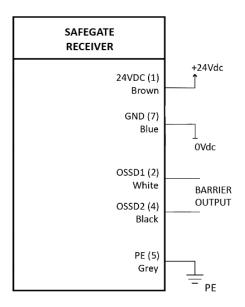
If the SAFEGATE light curtain is used in AUTOMATIC mode, it will not be equipped with a start/restart interlock circuit. In most applications, this safety function is mandatory. Carefully evaluate the risks analysis of your own application.

TEST FUNCTION

The SAFEGATE barrier system features an automatic self-diagnosis function that enables it to detect response time malfunctions (this time is declared for each model).

This fault detection system is always active and does not require any external intervention.

APPENDIX D: S-A MODELS WIRING SAMPLE





LIGHT SIGNALS

SAFEGATE is equipped with LED Emitter and Receiver labels with leds to signal its operating condition in real time. In addition, the receiver (SMO - SMPO models) is equipped with a LED signal lamp integrated in the upper cap. Refer to the following tables to recognize active alarms.

EMITTER SIGNALS



X Label	
X Label	

TX Long Range Label

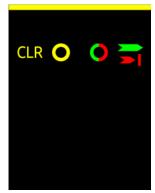
TRI-COLOUR LED							
RED	YELLOW	GREEN					
		1	MEANING				
On	-	-	Power on - Initial Test				
Flashing	-	-	Fail condition				
-	On	-	Curtain under test				
-	-	On	Normal operation				



RECEIVER SIGNALS









RX muting Label

RX muting 14 mm Label

RX no muting Label

RX Long Range Label

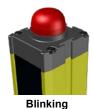
				LE	D				
PRG O	Осом	COM/ WEAK	O WEAK	CLR O	0 🗾	MUT O	O OVR	S1 O	MEANING
Blue									Curtain programmed via USB
	Orange	Orange							Communication with active PC
		Blue	Blue						Weak signal
				Yellow					Curtain awaiting RESTART (clear gate)
					Green				Normal operation (clear gate)
					Red				Occupied gate
					Red Flashing				Detected failure (see "TROUBLESHOOTING")
						Yellow			Muting active
							Yellow		Override active
							Yellow Flashing		Override request
								Yellow	Sensor interrupted
Blue Flashing	Orange Flashing								No barrier programmation
Blue Flashing	Orange Flashing				Red Flashing				Detected double programmation (hardware and software)



RECEIVER SIGNALS (INTEGRATED LAMP)

INTEGRATED LAMP

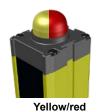














BREAK
Occupied curtain
with at least one
occupied beam

FAIL
Curtain in
error
condition

CLEAR Curtain awaiting RESTART

GUARD Normal operation condition

MUTING Muting underway

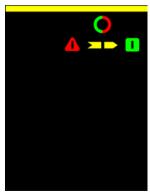
blinking OVERRIDE

OVERRIDE (Request)

OVERRIDE (In progress)

LIGHT	MEANING
Yellow/Green	Curtain awaiting RESTART (clear gate)
Green	Normal operation (clear gate)
Red	Occupied gate
Red Flashing	Detected failure (-> DIAGNOSTICS)
Yellow	Muting active
Yellow Flashing	Override active
Yellow/Red	Override request

FAULT DIAGNOSIS - EMITTER





TX Label

TX Long Range Label

NUMBER OF FLASHINGS		
RED	ERROR	POSSIBLE CAUSE
2	RANGE0 / RANGE1 wrong wiring	Check pin 2 and 4 connections on the main connector
3/4	Internal error	Contact ReeR after sales service
5	SYNC wrong wiring	Check pin 2 connection on the sensors connectors



FAULT DIAGNOSIS - RECEIVER

→

In SMP, SMPO models in addition to the corresponding led, when the operator connects SAFEGATE to Computer via USB, a POP-UP window with the error code appears on the monitor.









RX muting Label

RX muting 14 mm Label

RX no muting Label

RX Long Range Label

	NUMBER OF FLASHINGS					
0 =	CLR O	MUT O	O OVR	51 O O 52 53 O O 54	ERROR	POSSIBLE CAUSE
2					Configuration error SEL_A/SEL_B/EDM	Pin 6-8-11 connections on the RX male connector
2				2 (\$1/\$2)	Inconsistency between red and blue connector selection for S2 wiring and the physical wiring of S2	Wire S2 in consistency with the selected wiring option (red or blue connector)
3					Wrong EDM configuration	Pin 8 connections on the RX male connector
3	3				EDM feedback failure	Contact connectors EDM Power Contactors
3		3			STATUS input failure	Pin 12 connections on the RX male connector
3			3		OVERRIDE_1 / OVERRIDE_1 input failure	Pin connections 9-10 on the male connector on the RX
3				3	SENSOR input failure	Pin connections 2-4 on the sensor connectors
3	3	3	3		MUTING LAMP FAILURE	Connections on the auxiliary lamp connector
4					OSSD1 / OSSD2 error	3-4 pin connectors on the male connector on the RX
5					MAIN CARD ERROR	Contact ReeR after sales service
5	5				BASE SHEET (EEPROM) error	Contact ReeR after sales service
5			5		MAIN CARD ERROR	Contact ReeR after sales service
6					MAIN CARD (Microcontroller) error	Contact ReeR after sales service
6	6				GENERIC DEFAULT BOARD ERROR	6-7-8-9-10-11 pin connections on the male connector on the RX
6		6			Beam error	Contact ReeR after sales service
6			6		24VDC power supply overload	Eventual short-circuit on OSSD outputs
6		6	6		LAMP/STATUS over current	Short-circuit on pin 12 or auxiliary lamp connector
7					Receiving beams failure	Contact ReeR after sales service
8					Interfering Emitter Detected	Verify the presence of another curtain not correctly positioned (see section "Multiple Systems")



TECHNICAL SPECIFICATIONS

	Type 4	EN 61496-1:2013 IEC 61496-2:2013	3			
	SIL 3	IEC 61508 1: (ad 2) IEC 61509 2: (a	d 2) IEC 61508-3- (ad 2) IEC 61509-4- (ad 2)			
Safety	SIL 3 IEC 61508-1: (ed.2) IEC 61508-2: (ed.2) IEC 61508-3: (ed.2) IEC 61508-4: (ed.2)					
	PL e	EN ISO 13849-1:2015				
	Cat. 4 EN ISO 13849-1:2015					
Resolutions (Detection Capabilities)		14mm - 30 r	mm - 40 mm			
	14 mm 03 m (Low) / 16 m (High)					
Range		30mm / 40mm / Multibeam	04 m (Low) / 012 m (High)			
		Multibeam Long Range	640 m (Low) / 880 m (High)			
Protected height (Detection Zone)	310	/ 460 /610 / 760 / 910 / 1060 / 1210 / 7	1510 /1660 / 1810 / 1960 / 2110 / 2260 (m)			
Multibeam		2/3/4	beams			
Power supply		24VDC	± 20%			
Power consumption		1W (Emitter) /	2W (Receiver)			
Connections	Power supply connector on TX: M12 - 5 pin male Power supply connector on RX: M12 - 12 Pin Male Muting sensor connectors / Muting lamp / Configuration: M12 – 5-pin Female					
Configuration	Hardware on RX connector S, SM, SMO models Hardware or software with USB connection <-> PC on SMP, SMPO models					
Conductor dimensions	$0.25 \div 2.5 \text{ mm}^2$ (0.5 mm ² with length > 20 m / 1 mm ² with length > 50 m)					
Max link length		100) m			
Safety Outputs (OSSDs)		2 PNP – 400r	nA @ 24VDC			
STATUS Output		PNP – 100mA @ 24VDC (shows t	the condition of the OSSD outputs)			
EDM input		Available on F	RX, selectable			
Restart Auto/Manual		Available on F	RX, selectable			
Response time		5,5 ms28 ms (s	see model tables)			
Test input	Available on TX, selectable					
Signals and diagnostics	LED Signals on Emitter and Receiver Labels Models SMO, SMPO: Indication of MUTING / OVERRIDE / CURTAIN STATUS with integrated lamp in the upper RX cap, LED technology					
Operating temperature		-30°C ÷	+55°C			
Degree of protection		IP 65 ar	nd IP 67			
Section Size (I x h)		50mm :	x 55mm			



MUTING FUNCTION					
Current rating available for Muting sensors	50 mA				
Muting lamp output	24VDC / 0.5 ÷ 5 W				
Muting Signal Response Time (Sensors)	100 ms				
Muting Signal Logical Levels (Sensors)	< 5VDC : CLEAR SENSOR 11÷30 VDC : ACTUATED SENSOR				
Time-out Muting (SM/SMO models)	30 sec, ∞ (MT4P only) / 30 sec, 9 hours (all other models)				
Time-out Muting (SMP/SMPO models)	Configurable via software				
Override max time-out time	15 minutes (renewable) Configurable via software (SMP/SMPO models only)				
Max number of consecutive OVERRIDE	30				
Logic muting	Crossed beams (LX / TX logic) and sequential				
Logic muting (SMP / SMPO)	Fully configurable logic with REER software				
Partial Muting (SMP/SMPO)	Possibility to interrupt only a selected number of beams (only on programmable models)				
Tolerance time between sensor 1 and sensor 2	4 sec. Configurable via software (SMP/SMPO models only)				
Muting lamp (internal)	Integrated lamp in the upper RX cap, LED technology				
Muting enable	Pin on main connector, disabled if not required and monitored				

	MODELS S, SM, SMO, SMP, SMPO													
14 mm models	301	451	601	751	901	1051	1201	1351	1501	1651	1801	1951		
BEAMS	30	45	60	75	90	105	120	135	150	165	180	195		
Response time (ms)	5	6,4	7,7	9,1	10,4	11,8	13,1	14,5	15,8	17,2	18,5	19,9		
Protected heigt	310	460	610	760	910	1060	1210	1360	1510	1660	1810	1960		
PFH₀	1,21E-08	1,57E-08	1,7E-08	2,06E-08	2,19E-08	2,55E-08	2,68E-08	3,04E-08	3,16E-08	3,52E-08	3,65E-08	4,01E-08		
MTTF _d	302,2	284,8	267,6	253,9	240,2	229,0	217,8	208,6	199,3	191,5	183,6	177,0		
DC _{avg}	97,3%	96,6%	96,5%	95,9%	95,8%	95,3%	95,3%	94,8%	94,8%	94,4%	94,4%	94,1%		
CCF							3	30%						
30 mm models	303	453	603	753	903	1053	1203	1353	1503	1653	1803	1953	2103	2253
BEAMS	16	23	31	38	46	53	61	68	76	83	91	98	106	113
Response time (ms)	8	9,5	11	12,5	14,5	16	17,6	19	20,5	22	23,5	25	26,5	28
Protected heigt	310	460	610	760	910	1060	1210	1360	1510	1660	1810	1960	2110	2260
PFH₀	1,78E-08	1,91E-08	2,02E-08	2,15E-08	2,26E-08	2,39E-08	2,50E-08	2,63E-08	2,74E-08	2,87E-08	2,98E-08	3,11E-08	3,22E-08	3,35E-08
MTTF _d	223,2	198,2	179,0	162,5	149,4	137,8	128,2	119,5	112,3	105,6	99,9	94,5	89,9	85,6
DC _{avg}	97,1%	97,2%	97,3%	97,4%	97,4%	97,5%	97,5%	97,6%	97,6%	97,6%	97,7%	97,7%	97,7%	97,7%
CCF							8	30%						,
40 mm models	304	454	604	754	904	1054	1204	1354	1504	1654	1804	1954	2104	2254
BEAMS	11	16	21	26	31	36	41	46	51	56	61	66	71	76
Response time (ms)	7	8	9	10	11	12,5	13,5	14,5	15,5	16,5	17,5	18,5	19,5	20,5
Protected heigt	310	460	610	760	910	1060	1210	1360	1510	1660	1810	1960	2110	2260
PFH₀	1,42E-08	1,50E-08	1,60E-08	1,68E-08	1,77E-08	1,85E-08	1,95E-08	2,03E-08	2,12E-08	2,21E-08	2,30E-08	2,38E-08	2,47E-08	2,56E-08
MTTF _d	238,7	218,1	200,4	185,7	172,7	161,6	151,7	143,1	135,2	128,4	122,0	116,4	111,1	106,5
DC _{avg}	97,7%	97,7%	97,7%	97,8%	97,8%	97,8%	97,8%	97,8%	97,9%	97,9%	97,9%	97,9%	97,9%	97,9%
CCF					_		3	30%					<u> </u>	



S, SM, SMO, SMP, SMPO Multibeam / Long Range MODELS					
Beams	2	3	4		
Response time (ms)	5,5	5,5	5,5		
PFH₀	8,97E-09	9,63E-09	1,03E-08		
MTTF _d	272,2	262,4	253,3		
DC _{avg}	98,6%	98,5%	98,4%		
CCF	80%				

Muting Arms MA L2P - Logic L 2 parallel beams (TX + RX)				
Muting Arms MA T4P - Logic T 4 parallel beams (TX + RX)				
Beams 2 (MA L2P) / 4 (MA T4P)				
Response time (ms)	100			
Working range (m)	03,5			
Muting Arms MA L2X - Logic L 2 crossed beams (TX + RX)				
Muting Arms MA T2X - Log	ic T 2 crossed beams (TX + RX)			
D	2			
Beams	2			
Response time (ms)	100			

Muting Arms MA L2P TRX (TRX V) (TRX G) - Logic L 2 parallel beams (TX/RX + reflector)					
Muting Arms MA T4P TRX (TRX V) (TRX G) - Logic T 4 parallel beams (TX/RX + reflector)					
Beams	2 (MA L2P TRX) / 4 (MA T4P TRX)				
Response time (ms)	100				
Working range (m)	03,5 (MA L2P TRX-TRX V) / (MA T4P TRX-TRX V)				
Working range (m)	02 (MA L2P TRX G) / (MA T4P TRX G)				

Muting Arms MZ L2X / MZ L2P - Logic L With 2 M5 (TX + RX) crossed/parallel photocells		
Number of single photocell beams 5		
Response time (ms)	100	
Working range (m) 03,5 (MZ L2P) / 13,5 (MZ L2X)		
Sensor beams coding	SYNCHRO signal on TX	
PFH _d (single M5) 2,73E-07		

Muting Arms MZ T2X - Logic T With 2 M5 (TX + RX) crossed photocells			
Number of single photocell beams	5		
Response time (ms)	100		
Working range (m)	13,5		
Sensor beams coding	SYNCHRO signal on TX		
PFH _d (single M5) 2,73E-07			

Muting Arms MZ T4P With 4 M5 (TX + RX) parallel photocells			
Number of single photocell beams	5		
Response time (ms)	100		
Working range (m) 03,5			
Sensor beams coding	SYNCHRO signal on TX		
PFH _d (single M5) 2,73E-07			



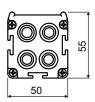
MECHANICAL DIMENSIONS

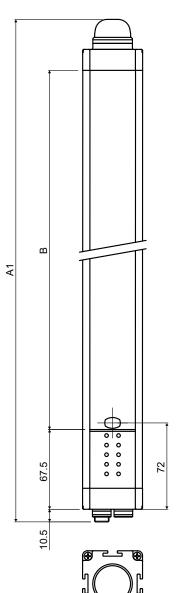
CURTAIN DIMENSIONS

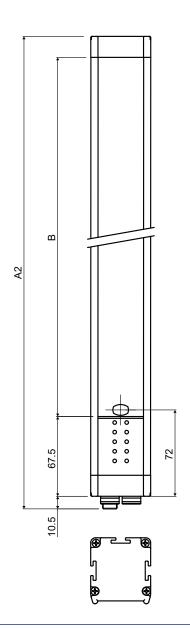
Models 14, 30, 40mm with Lamp



Models 14, 30, 40mm without lamp

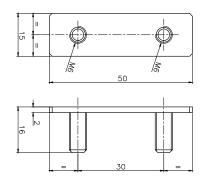






MODEL	A1 (mm)	A2 (mm)	B (mm)
300	420	395	300
450	570	545	450
600	720	695	600
750	870	845	750
900	1020	995	900
1050	1170	1145	1050
1200	1320	1295	1200
1350	1470	1445	1350
1500	1620	1595	1500
1650	1770	1745	1650
1800	1920	1895	1800
1950	2070	2045	1950
2100	2220	2195	2100
2250	2370	2345	2250

Fastening inserts with 2 M6x16 pins



In order to check the exact number and position of the connectors, refer to the individual sections of the electrical connections.



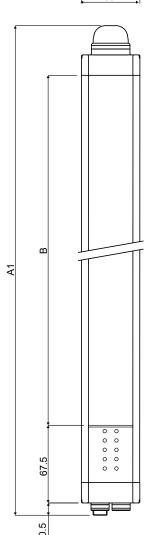
Models Multibeam / LR / LR ILP with Lamp

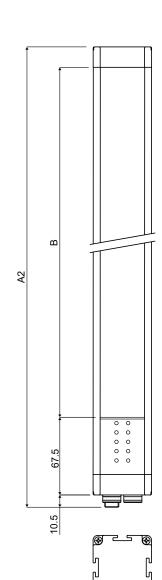


Models Multibeam / LR / LR ILP without Lamp



MODEL	A1 (mm)	A2 (mm)	B (mm)
2B	710	685	590
3B	1010	985	890
4B	1110	1085	990

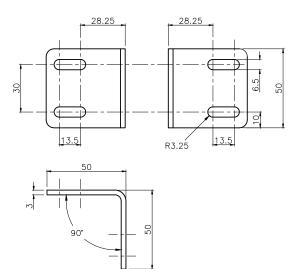




MODEL	A1 (mm)	A2 (mm)	B (mm)
2B LR	673	648	553
3B LR	973	948	853
4B LR	1073	1048	953

MODEL	A1 (mm)	A2 (mm)	B (mm)
2B LR ILP	698	673	579
3B LR ILP	998	973	879
4B LR ILP	1098	1073	979

LL fixing brackets





In order to check the exact number and position of the connectors, refer to the individual sections of the electrical connections.



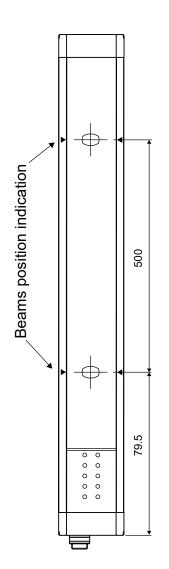


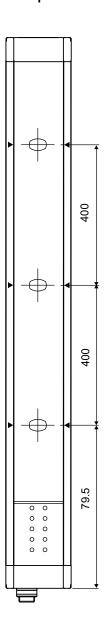
LONG RANGE MODELS BEAMS POSITION

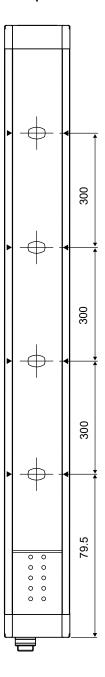
Model 4B LR / LR ILP Beams position

Model 3B LR / LR ILP Beams position

Model 2B LR / LR ILP Beams position







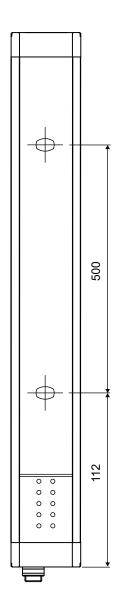


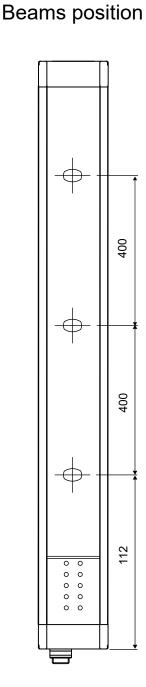


MULTIBEAM MODELS BEAMS POSITION

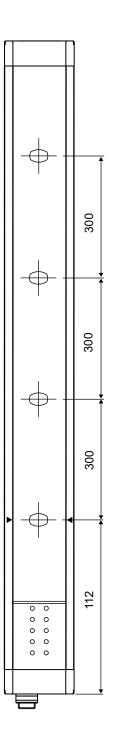
Model 4B Beams position

Model 2B Beams position





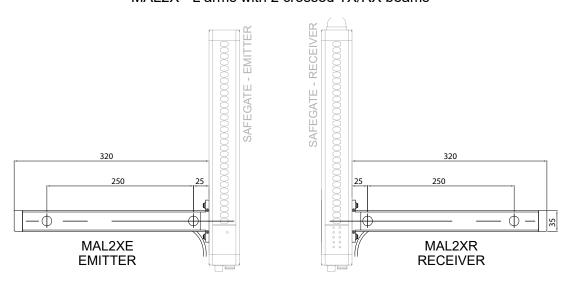
Model 3B



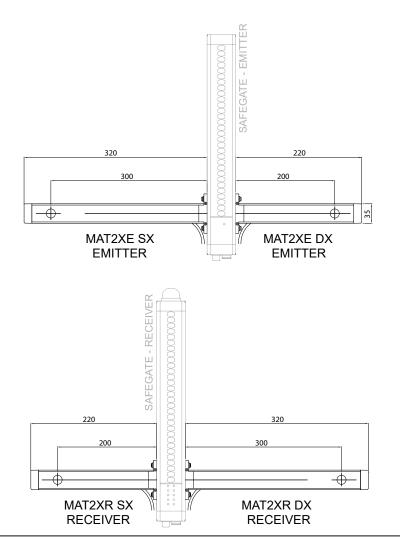


ACCESSORY DIMENSIONS

MAL2X - L arms with 2 crossed TX/RX beams

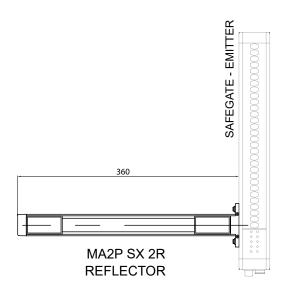


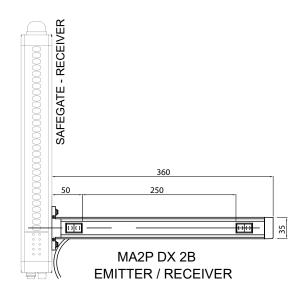
MAT2X - T arms with 2 crossed TX/RX beams



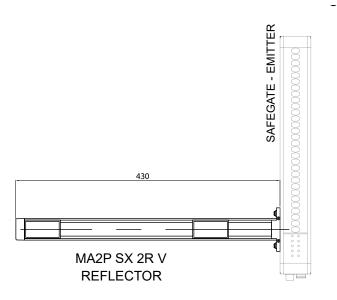


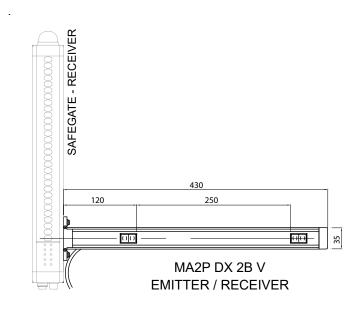
MAL2P TRX - L-arms with 2 parallel beams with reflector

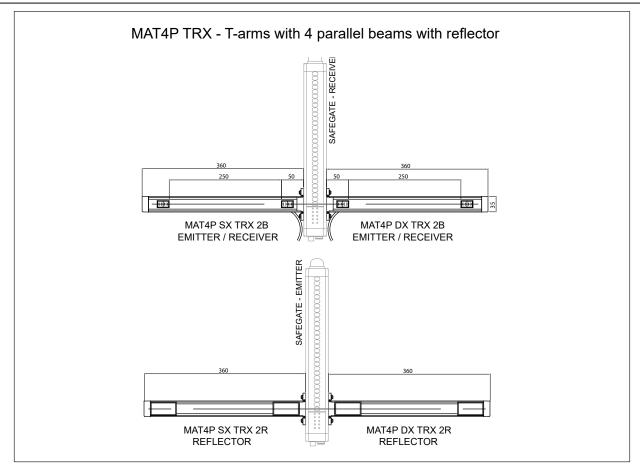


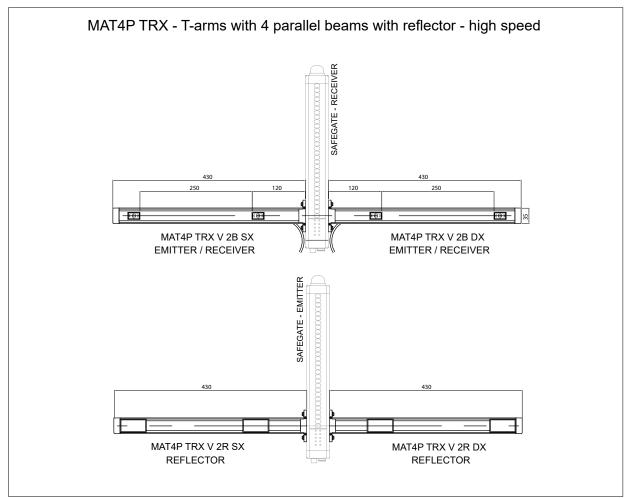


MAL2P TRX - L-arms with 2 parallel beams with reflector - high speed



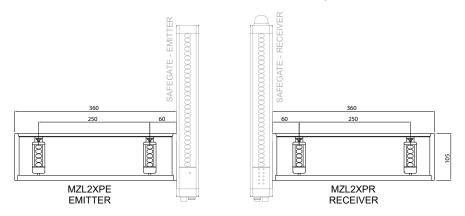




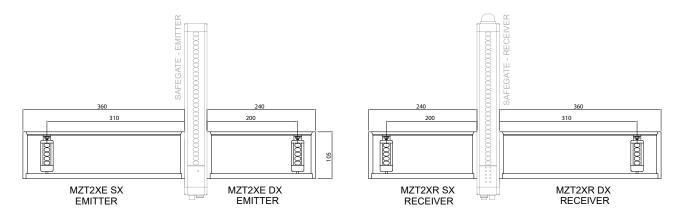




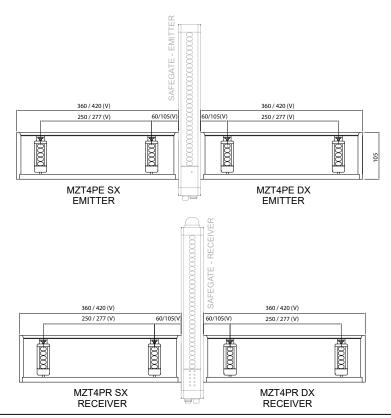
MZL2XP L arms with 2 cross-linked/parallel adjustable M5 beams



MZT2X - T arms with 2 adjustable M5 cross beams



MZT4P - T arms with 4 adjustable M5 parallel beams







SAFEGATE CONFIGURATOR SOFTWARE

The "SAFEGATE CONFIGURATOR" application software allows configuration of the SAFEGATE curtain characteristics, allowing you to set all the parameters for a proper operation of the curtain and Muting function.

After verifying that the system is working correctly, the operator will no longer need connection to the PC and SAFEGATE can work autonomously.

If you want to continuously monitor the curtain operation by PC, just leave the USB connection enabled with SAFEGATE.

Configuration is possible in a few simple steps through the versatile graphical interface of SAFEGATE CONFIGURATOR; let's see how.

SOFWARE INSTALLATION

HARDWARE characteristics requested by the PC for connection

- > RAM memory: 1GB (sufficient enough to operate Windows 7 SP1 + Framework 4.0)
- > Fixed Disk: clear Space > 500Mbyte
- ➤ USB connector: 1.1. 2.0 or 3.0
- > CD-ROM reader

SOFTWARE characteristics requested by the PC for connection

Windows 7 with Service Pack 1 installed (or higher OS).

You must have Microsoft Framework 4.0 (or higher) installed on your computer

How to install SAFEGATE CONFIGURATOR

- > Insert the installation CD:
- Wait for the program installer to request the SET-UP of the SW; Alternatively, follow the path D:/;
- Double-click the Setup.exe file;
- To program SMP / SMPO models it is mandatory that pin 6 and 11 of main connector on the receiver detect 0VDC (or open circuit).

Once installed, a window will appear asking for the shutdown of the set-up program.

CONFIGURATION PHASES

This section describes the main features that characterize SAFEGATE configuration software:

- GRAPHICAL INTERFACE
- CONNECTION
- ➤ PROGRAMMING
- DOWNLOAD CONFIGURATION
- CONFIGURATION VALIDATION AND LOADING
- PRINT REPORT
- CURTAIN ACTIVATION
- CURTAIN CONDITION MONITORING
- > ERRORS HISTORY





The standard toolbar is reproduced in the figure below and the meaning of the different icons is listed:











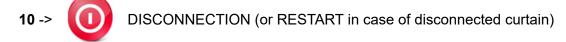






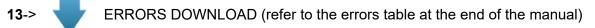


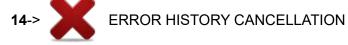










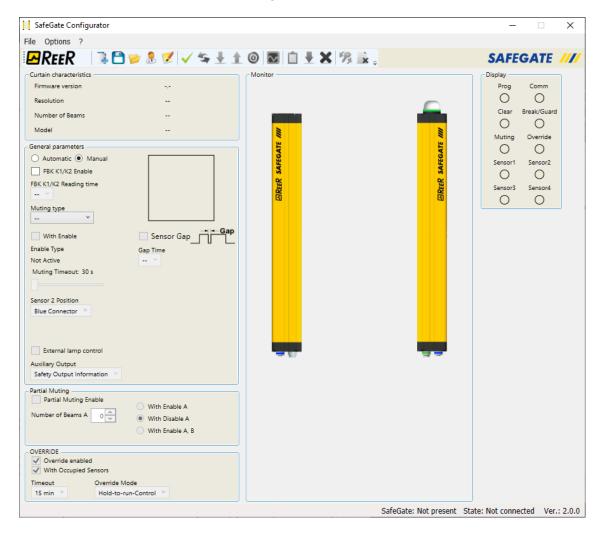






GRAPHICAL INTERFACE

The various features of the software will be described below. At start-up, the software will show the following initial screen.



The operator can decide whether:

- > to create a new configuration
- to load a previously created configuration (icon).



To proceed with the programming, after the connection with SAFEGATE, a PASSWORD is required:

Level 1 password

> At the first system initialization the operator must use the password "" (ENTER key). The operator who knows the level 2 password is enabled to enter a new level 1 password (alphanumeric, max 8 characters). Enter Password

O Level1

Level2

Level 2 password

> The operator authorised to create the configuration must know a level 2 PASSWORD. At initial system initialization the operator must use the SAFEPASS password (all capital letters). The operator who knows the level 2 password is enabled to enter a new level 2 password (alphanumeric, max 8 characters).

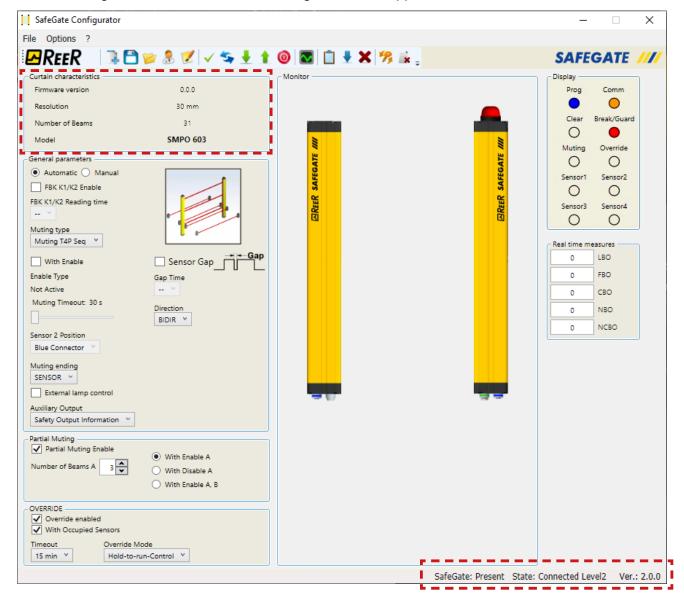
Cancel

Password:



CONNECTION WITH SAFEGATE

- > Connect the PC to SAFEGATE (icon
- After entering the PASSWORD, the following screen will appear:



At this stage we have a STATIC reading of the SAFEGATE condition, as the curtain is still not in operation. In the boxes, the information is highlighted:

- General characteristics of the curtain
- Password Level
- Connected/Disconnected
- Software Version

DOWNLOAD CONFIGURATION

> In order to view the curtain configuration, it is necessary to request a download of the configuration (icon





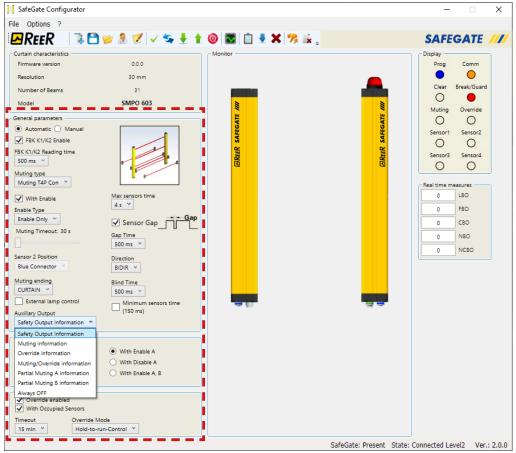


CURTAIN PROGRAMMING

The dotted box highlights the area to be filled for the proper programming of the curtain.

Level 2 password

- The operator authorised to create the configuration must know a level 2 PASSWORD. At first system. initialization the operator must use the SAFEPASS password all capital letters). The designer who knows the level 2 password is enabled to enter a new level 2 password (alphanumeric, max 8 characters).
- Programming (BLUE) and Communication (YELLOW) leds are lit during programming.
- Refer to the "CONFIGURATION PARAMETERS" section for the meaning of the various parameters and their possible options.



> After you have properly configured the curtain, you can save that information (icon



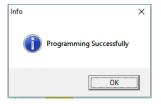
CONFIGURATION VALIDATION AND LOADING

> Check the correctness of the configuration with the validation procedure (icon



> Then send the configuration to SAFEGATE (icon) and confirm:





This SAFEGATE system report assumes that configuration has been performed correctly with the SCS configuration software, in compliance with the regulations stated in the SAFETY section.

**



PRINT REPORT CONFIGURATION

you can make a report (Report) of the main > Thanks to the Report Printing feature (icon parameters set by the operator during configuration.



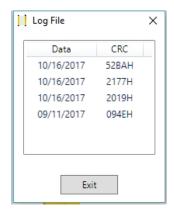
This function allows immediate verification of the configuration just set.

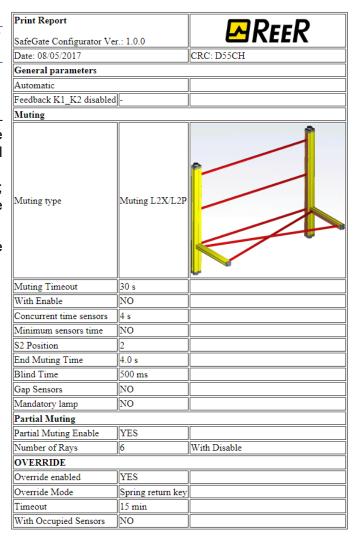
CONFIGURATION HISTORY

Within the configuration history file are contained the date of creation and the CRC (4-digit hexadecimal identification) of the last configurations loaded.

This logfile can record up to 5 consecutive events; the register will be then overwritten starting with the least recent event.

The LOG file can be viewed using the appropriate icon in the standard menu (icon

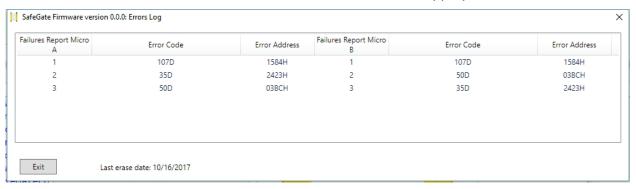




ERRORS DOWNLOAD

Using the icon, the operator can download the Errors Log file containing Error Code, Micro involved and Error Address.

Please refer to the errors table at the end of the manual to follow the appropriate corrective action.





SAFEGATE ACTIVATION

The actual operation and display of the curtain status is obtained via two successive commands:

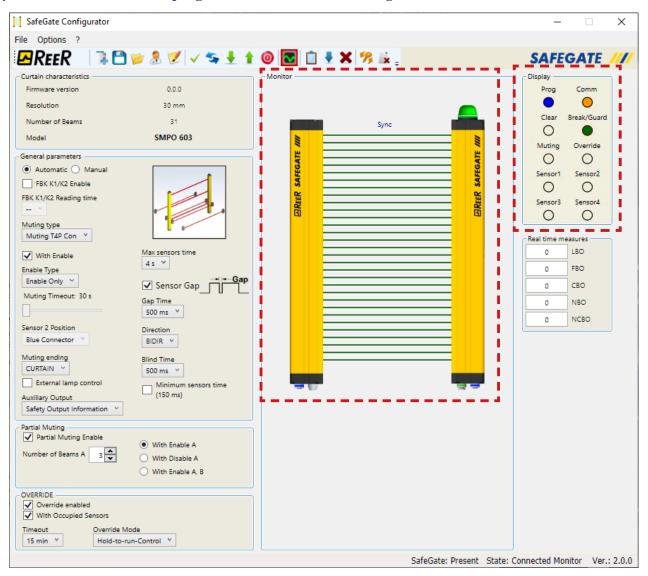
- > Disconnect (icon 1). SAFEGATE is now operative.
- Monitor curtain status (icon



CURTAIN CONDITION MONITORING

At this stage we have a DYNAMIC reading of the SAFEGATE operating condition. In particular, they are highlighted:

- > A graphic representation of the curtain, with integrated lamp (if present) with colouration in real time.
- > Agraphic representation of the colour-coded label in real time; Programming blue led and Communication yellow led on = Curtain is programmed and communicating.





SETTING CURTAIN GENERAL PARAMETERS

Automatic/Manual: This parameter allows you to communicate the desired operating mode to SAFEGATE (refer to section "OPERATING MODES SELECTION").

Enable FBK K1/K2: If selected, it is mandatory to read an external EDM signal (refer to section "SELECTING MODES OF OPERATION").

Time reading FBK K1/K2: Lets you set a delay in reading the external FBK signal.

Possible values: from 100 ms to 1300 ms (with 100 ms steps).

Auxiliary Output: With drop-down menu, select the meaning to be assigned to the receiver pin 12 (STATUS):

- Safety Output information
- Muting information
- > Override information
- Muting/Override information
- > Partial Muting A information
- > Partial Muting B information
- > Always OFF

When one of the previous options is selected, the pin 12 (STATUS) state level turn by 0VDC to 24VDC, thus indicating that the function is active.



SETTING MUTING PARAMETERS

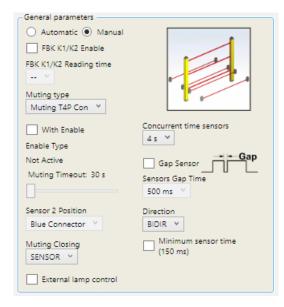


The incorrect setting of the Muting parameters by the operator compromises the safe operation of the barrier.

"Concurrent" Muting



The activation of the Muting function occurs as a result of the interruption of the sensors S1 and S2 (the order is not relevant) within a time between 2s and 5s decided by the operator, (or S4 and S3 with material moving in the opposite direction). Contemporaneous Muting enables the muting function to be activated by the S1, S2, S3 and S4 inputs. Preliminary condition: The Muting cycle can start if all sensors are at OVDC and the light curtain is free.



Parameters

With Enable: If checked, it is possible to read the external signal of "MUT_ENABLE" (Muting Enable).

Otherwise, the Muting function is always enabled. Enable can be of two types: Enable/Disable and Enable Only. If you select it "Enable/Disable" the Muting cycle cannot start if Enable is fixed at 24VDC or 0VDC but it is activated only with one rising edge, if you want to disable the muting, the signal must be returned to 0VDC. In this way, the detected falling edge disables Muting in any condition. If you select it "Enable only" there is no way to disable Muting over the entire duration of the function, but you must always return Enable to 0VDC to allow a new rising edge for the next Muting cycle (refer to the "Partial Muting" section).

Muting Timeout: Allows you to set the time, variable from 10 sec to infinity, within which the Muting cycle must end, if when

the cycle is not yet over, Muting is disabled immediately.

Max sensors time: You can set the maximum time (2 to 5 seconds) that must be between the activation of two muting sensors.

Sensor Gap: With non - homogeneous pallet materials and possible "holes" in the interruption of the muting, this parameter allows filtering in the fall of the sensor signal leaving then the muting sequence unchanged. This parameter can take values from 200ms to 1000ms (with 100ms steps)

Sensor 2 Position: Not allowed.

Direction: You can set the occupancy order of the sensors; if set BIDIR the occupation can take place in both directions from S1 & S2 to S3 & S4 or reverse order; if you choose UP the occupancy order is: S1 & S2 to S3 & S4 and eventually with DOWN the occupancy order is: S4 & S3 to S2 & S1.

Muting ending: It can be of two types CURTAIN and SENSOR. By selecting CURTAIN, muting closes at the release of the protected gate, while with SENSOR closure occurs after the release of the last but one sensor.

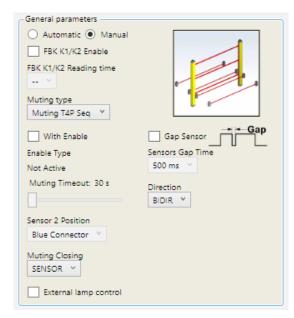
Minimum sensors time: If selected, it allows Muting activation only if it is time >150 ms between activation of sensor 1 and sensor 2 (or sensor 4 and sensor 3).

External lamp control: If selected, the Muting lamp is compulsory.



"Sequential" Muting

The activation of the Muting function occurs following the sequential interruption of the sensors S1 and S2, and the sensors S3 and S4. If the pallet proceeds in an opposite direction the correct sequence is: S4, S3, S2, S1.



Parameters

With Enable: If checked, it is possible to read the external signal of "MUT_ENABLE" (Muting Enable).

Otherwise, the Muting function is always enabled. Enable can be of two types: Enable/Disable and Enable Only. If you select it "Enable/Disable" the Muting cycle cannot start if Enable is fixed at 24VDC or 0VDC but it is activated only with one rising edge, if you want to disable the muting, the signal must be returned to 0VDC. In this way, the detected falling edge disables Muting in any condition. If you select it "Enable Only" there is no way to disable Muting over the entire duration of the function, but you must always return Enable to 0VDC to allow a new rising edge for the next Muting cycle (refer to the "Partial Muting" section).

Muting Timeout: Allows you to set the time, variable from 10 sec to infinity, within which the Muting cycle must end, if, when the cycle is not yet over, Muting is disabled immediately.

Sensor Gap: With non-homogeneous pallet materials and possible "gaps" in the interruption of muting, this parameter allows filtering the drop of the sensor signal leaving then the muting sequence unchanged. This parameter can take values from 200ms to 1000ms (with 100ms steps)

Sensor 2 Position: Not allowed.

Direction: You can set the occupancy order of the sensors; if set BIDIR the occupation can take place in both directions from S1 & S2 to S3 & S4 or reverse order; if you choose UP the occupancy order is: S1 & S2 to S3 & S4 and eventually with DOWN the occupancy order is: S4 & S3 to S2 & S1.

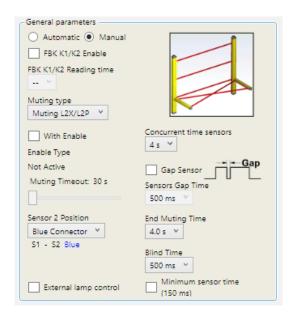
Muting ending: It can be of two types CURTAIN and SENSOR. By selecting CURTAIN, muting closes at the release of the protected gate, while with SENSOR, closure occurs after the release of the last but one sensor.

External lamp control: If selected, the Muting lamp is compulsory.



"L" Muting

The activation of the Muting function occurs as a result of the interruption of sensors S1 and S2 (the order is not relevant) within a time between 2s and 5s decided by the operator. The status of Muting ends after the release of the gate.



Parameters

With Enable: If checked, it is possible to read the external signal of "MUT ENABLE" (Muting Enable).

Otherwise, the Muting function is always enabled. Enable can be of two types: Enable/Disable and Enable Only. If you select "Enable/Disable" the Muting cycle cannot Start if Enable is fixed at 24VDC or 0VDC but is activated only by a rising edge; if you want to disable the muting, the signal must be returned to 0VDC. In this way, the detected falling edge disables Muting in any condition. If you select "Enable only" there is no way to disable Muting over the entire duration of the function, but you must always return Enable to 0VDC to allow a new rising edge for the next Muting cycle (refer to the "Partial Muting" section).

Muting Timeout: Allows you to set the time, variable from 10 sec to infinity, within which the Muting cycle must end, if, when the cycle is not yet over, Muting is disabled immediately.

Max sensors time: You can set the maximum time (2 to 5 seconds) that must be between the activation of two muting sensors.

Sensor Gap: With non - homogeneous pallet materials and possible "holes" in the interruption of the muting, this parameter allows filtering in the fall of the sensor signal leaving then the muting sequence unchanged. This parameter can take values from 200ms to 1000ms (with 100ms steps)

Sensor 2 Position: The Position S2 parameter allows the operator to select the connector (blue or red) to which the external Muting S2 sensor must be connected. The **blue** connector must be selected using integrated L-arms (with output on a single connector). Using two separate sensors (with 2 connectors) the operator must select the red connector.

End Muting Time You can set the (from 2.5 to 6 seconds, with 500 ms steps) that must be between the release of the first sensor and the release of the dangerous gate. At the end of this time the Muting function ends.

Blind Time: Only with Muting Closure = Curtain, blind time is triggered if it is known that after the complete transit of the pallet (muting cycle closure) objects may be protruding and occupy the curtain, sending the curtain to BREAK status. During blind time, OSSD outputs remain active. The Blind Time may vary from 250 ms to 1 second.

Minimum sensors time: If selected, it allows Muting activation only if it is time >150 ms between activation of sensor 1 and sensor 2 (or sensor 4 and sensor 3).

External lamp control: If selected, the Muting lamp is compulsory.

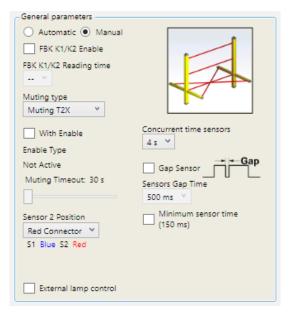
89



"T" Muting



The activation of the Muting function occurs as a result of the interruption of the sensors S1 and S2 (the order is not relevant) within a time between 2s and 5s decided by the operator. The status of Muting ends after the release of the gate.



Parameters

With Enable: If checked, it is possible to read the external signal of "MUT ENABLE" (Muting Enable).

Otherwise, the Muting function is always enabled. Enable can be of two types: Enable/Disable and Enable Only. If you select it "Enable/Disable" the Muting cycle cannot start if Enable is fixed at 24VDC or 0VDC but it is activated only with one rising edge, if you want to disable the muting, the signal must be returned to 0VDC. In this way, the detected falling edge disables Muting in any condition. If you select it "Enable only" there is no way to disable Muting over the entire duration of the function, but you must always return to 0VDC Enable to allow a new rising edge for the next Muting cycle (refer to the "Partial Muting" section).

Muting Timeout: Allows you to set the time, variable from 10 sec to infinity, within which the Muting cycle must end, if When the cycle is not yet over, Muting is disabled immediately.

Max sensors time: You can set the maximum time (2 to 5 seconds) that must be between the activation of two muting sensors.

Sensor Gap: With non - homogeneous pallet materials and possible "holes" in the interruption of the muting, this parameter allows filtering in the fall of the sensor signal leaving then the muting sequence unchanged. This parameter can take values from 200ms to 1000ms (with 100ms steps)

Sensor 2 Position: The Position S2 parameter allows the operator to select the connector (blue or red) to which the external Muting S2 sensor must be connected. The blue connector must be selected using sensors with output on a single connector. Using two separate sensors (with 2 connectors) the operator must select the **red** connector.

Minimum sensors time: If selected, it is only possible to activate Muting if a time > 150 ms elapses between the activation of Sensor 1 and Sensor 2 (or Sensor 4 and Sensor 3).

External lamp control: If selected, Muting lamp is compulsory.



PARTIAL MUTING

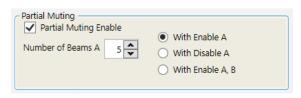
A SAFEGATE function concerns the possibility of limiting the muting function to a number of well-defined beams (from the first beam).

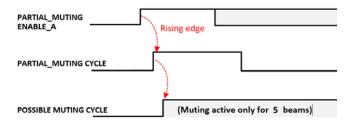
This function, called Partial Muting, has the following features:

- Read carefully "PARTIAL MUTING", page 54
- It can only be enabled with the Safegate Configurator SOFTWARE: (Tick on "Partial Muting Enable").
- -The first beam of the Partial Muting always starts from the bottom (connection side).

Partial Muting with Enable

When Partial Muting with ENABLE (A or A,B) is selected after a "PARTIAL Muting" signal rising before the start of the Muting cycle, SAFEGATE enables the Partial Muting function only for the first n beams (5 in the example).

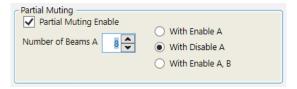




Partial Muting with Disable

When Partial Muting with DISABLE (A) is selected, SAFEGATE enables the Partial Muting function only for the first n beams (8 in the example).

Only after a "PARTIAL Muting" signal occurs before the start of the Muting cycle will the Muting Normal cycle be enabled.





- Monito Comm Clear Break/Guard \circ Override Muting 0 \bigcirc 0 0 Sensor3 Sensor4 \bigcirc \bigcirc Real time measures LBO FBO 0 СВО NBO NCBO

Partial Muting: MONITOR

At this stage we have a dynamic reading of the SAFEGATE condition.

In particular, they are highlighted:

- A graphic representation of the curtain, with integrated lamp with colour in real time.
- A graphic representation of the signalling
- A graphical representation of the curtain, with highlighted beams for Partial muting function

Pay attention to the two highlighted zones in the boxes: in the example, the Partial muting option for the first 10 beams was selected. THE BEAMS WITH Partial Muting FUNCTION ARE HIGHLIGHTED IN YELLOW, WHILE GREEN COLOURED BEAMS WORK NORMALLY: ACTIVE CURTAIN.



MUTING OVERRIDE



- ** In this situation, the OSSD outputs are inactive because the curtain and/or at least one Muting sensor are occupied. In this condition, the OVERRIDE request LED flashes. This operation activates the OSSD outputs make it possible to remove the blocking material; In addition, the Override/Muting lamp flashes.
- ** During the entire phase in which the OVERRIDE function is active, the Override/Muting lamp flashes. You should periodically verify the efficiency of this lamp (during Muting or Override phases).
- Warning! The Pulse Override command automatically activates the curtain outputs until both the curtain and the Muting sensors are again free of obstacles. During this period the curtain is not able to protect access to the dangerous gate. It is therefore necessary that all operations be conducted under close supervision of experienced personnel.

Override can only be activated if Muting is not active and at least one Muting sensor is occupied (or if the curtain is busy). At the release of the grid and sensors the Override ends.

Override can be configured in two ways:

- > Hold-to-run control.
- Pulse control.

Override with Hold-to-run control

Activating this function must be done by keeping the Override command active for the duration of subsequent operations. However, it is still possible to start a new override de-activating and re-activating the command. At the release of the curtain and sensors (clear gate) or the timeout expiration, the Override terminates without additional commands.

Override with Pulse control

Activating this function occurs by activating the Override command.

At the release of the curtain and sensors (clear gate) or the timeout expiration, the Override terminates. The function can only resume if the Override command is switched on again.

Parameters

With sensors occupied: When selected, the activation of at least one sensor AND the BREAK condition of the light curtain are required to activate the OVERRIDE.

Timeout: It allows to set the time, which varies from 5 min to 30 min, within which the function Override must end.





SAFEGATE DIAGNOSTIC - ERRORS

ERROR	FAILURE DESCRIPTION	ACTION
0 ÷ 25	Internal error	Return the barrier to ReeR to be repaired
34 35, 37 40, 47 49, 50	OSSD error	Verify connection of pins 3, 4 on the main RECEIVER connector
32, 33, 36, 38, 39, 41 42, 43, 44 45, 46, 48, 51	OSSD Internal error	Return the barrier to ReeR to be repaired
64 ÷ 73	Main board Internal error	Return the barrier to ReeR to be repaired
74, 75	Overcurrent on 24VDC	Verify max current consumption ≤ 1,6A
76 ÷ 85 90	Main board Internal error	Return the barrier to ReeR to be repaired
86, 87	STATUS out error	Verify connection of pin 12 on the main RECEIVER connector
88	Overcurrent on auxiliary LAMP	Verify connection of pin 1 on the RECEIVER LAMP/USB connector
89	See 86, 87, 88	See 86, 87, 88
105, 106	Interfering Emitter detected	 Switch the position of the Emitter and Receiver Move the interfering Emitter to avoid this illuminating the Receiver Shield the beams coming from the interfering Emitter using opaque protections
128	Configuration error	Verify connection of pins 6, 11 on the main RECEIVER connector
129	Initial configuration modified	Verify connection of pins 6, 11 on the main RECEIVER connector
130	See 128, 129	See 128, 129
131, 132	With EDM active, initial PIN 8 status wrong	Verify connection of pin 8 on the main RECEIVER connector
133	Stucked EDM contact (closed)	Verify external contacts
134	Open EDM contact	Verify external contacts
135	See 133, 134	See 133, 134
136	OVERRIDE configuration error	Verify connection of pins 9, 10 on the main RECEIVER connector
137	Exceeded max number of Override requests	Turn off and on SAFEGATE
138	See 137	See 137
139	24VDC on STATUS output	Verify connection of pin 12 on the main RECEIVER connector
140	Overcurrent on STATUS output	Verify connection of pin 12 on the main RECEIVER connector
141	See 139, 140	See 139, 140
142	Error on Integrated lamp	Return the barrier to ReeR to be repaired
143, 144	Error on Auxiliary lamp	Verify connection of pin 1 on the RECEIVER LAMP/USB connector
146, 147	Muting sensors configuration error	 Verify muting sensors connection Verify position of sensor 2 with the software If no error is detected, return the barrier to ReeR to be repaired



CONTROLS, CARE AND MAINTENANCE

PRE-ACTIVATION CHECKLIST



To make sure that SAFEGATE has been configured correctly, follow the following checklist before turning on the product for the first time.

- Verify that the electrical connections have been carried out correctly. 1.
- Verify that the supply voltage is 24Vdc ± 20% (PELV, compliant with EN 60204-1 (Chapter 6.4)). 2.
- 3. Verify that access to the hazardous area can only take place through the gate protected by Safegate.
- 4. Verify that there are physical protection curtains preventing access to the hazardous area.
- The power contactors operating the hazardous machine must meet the safety level off the grid: 5. SIL 3 - PL e - Cat.4.
- 6. RESTART and OVERRIDE commands must not be accessible from inside the hazardous area.
- The minimum safety distance must have been previously measured and respected during installation. 7.
- 8. There must be no reflective surfaces near the dangerous voyage.
- Make sure that the MUTING/OVERRIDE signal lamp is correctly installed in a visible location by the operator. 9.
- 10. Ensure that there are no spurious light sources that may affect the smooth operation of the SAFEGATE.
- 11. Make sure the on-board staff has been adequately trained on the SAFEGATE operation.

PERIODIC CONTROL



Functional checks must be carried out at a certain frequency (e.g. daily), depending on the risk analysis and the grid utilization environment.

- 1. Verify that Emitter and Receiver have been properly connected to the power supply. (24VDC±20%).
- 2. Verify (only if SAFEGATE is programmed via Software) that the blue LED "PRG" is turned on.
- Verify the correct configuration settings:

a) MANUAL:

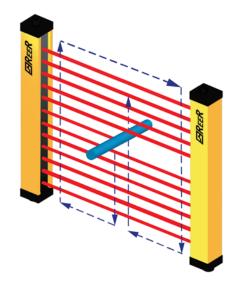
At power-up, the curtain waits for a RESTART command to activate its work cycle (START INTERLOCK). Verify that this command is positioned so that it cannot be activated from the inside of the hazardous area. Stop at least one beam of the protected area and make sure that the red LED on the Receiver (RESTART INTERLOCK) lights up.

b) AUTOMATIC:

Stop at least one beam of the protected area and verify that the green LED is lit again on correct operation

Verify protected zone resolution: For the test, use the correct test object (matt cylinder of the diameter equal to the resolution of the curtain. Refer to the Accessories/Spare Parts section for the correct ordering code for the test object.





- a) Insert the test object into the controlled area and move it slowly from top to bottom (or vice versa), first in the centre, and then close to both the transmitter and the receiver.
- b) For Multibeam models: Interrupt with one opaque object every one of the first beams in the centre and then close to both the Emitter and Receiver.
- c) Check that at each stage of the test object movement the red LED on the receiver remains in any case switched on and that the dangerous machine stops.
- Verify of TEST function operation.
 - a) Referring to the chapter "CONNECTIONS", activate the TEST function on the emitter and make sure that the red LED on the Receiver lights up.

CARE AND MAINTENANCE

SAFEGATE does not require any specific maintenance work; However, periodic cleaning of the frontal protection surfaces of the two devices is recommended.

Cleaning should be carried out with a damp cloth; In particularly dusty environments, after cleaning the front surface, it is advisable to spray it with an anti-static product.

- ** In any case, do not use abrasive, corrosive, solvents or alcohol that may damage the part to be wiped or wool cloth to avoid electrostatically loading the front surface of the curtain itself.
- Even a very fine groove of frontal plastic surfaces can increase the width of the beam of the light curtain, thus compromising the effectiveness of detection in the presence of reflective lateral surfaces.
- It is therefore essential to pay particular attention during the cleaning steps of the curtain front window, particularly in environments where abrasive powders are present. (e.g. cement plants, etc.).

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WARRANTY

REER guarantees that every new SAFEGATE system is free from defects in materials and manufacturing for a period of 12 (twelve) months from the time it is released by the factory if used under normal conditions. During this period, REER is committed to eliminate any defects in the product by repairing or replacing defective parts, completely free of charge, both for material and labour.

However, REER reserves the right to proceed, instead of repairing it, to replace the entire defective equipment with one having the same or equal characteristics.

The validity of the warranty is subject to the following conditions:

- The failure must be reported by the user to REER within twelve months from the date of delivery of the product.
- The equipment and its components are in the same condition as delivered by REER.
- → Failure or malfunction has not originated directly or indirectly from:
- Use for inappropriate purposes;
- > Failure to comply with the rules of use;
- ➤ Negligence, lack of expertise, incorrect maintenance;
- > Repairs, modifications, adaptations not performed by REER personnel, tampering, etc.;
- > Accidents or shocks (even if due to transport or causes of force majeure);
- > Other causes independent of REER.

The repair will be carried out at the REER laboratories where the material must be delivered or shipped: the shipping costs and the risks of any damage or loss of material during shipment are the responsibility of the customer.

All replaced products and components become REER property.

REER does not recognize any other warranties or rights except those expressly described above; in no case can claims for damages for expenses, activity interruption, or other factors or circumstances be made in any way related to the failure of the product or one of its parts.



The strict and complete observance of all the standards, indications and prohibitions set forth in this manual is an essential requirement for the proper operation of the light curtain. REER s.p.a., therefore, disclaims any liability in case of non-respect, even partial, of these indications.

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APPENDIX E: PIN OUT PROMPT GUIDE

Select if you need a Hardware or Software configuration	Do you need External Device Monitoring?	Do you need Muting Enable to be ON or OFF?	Would you like a Manual or Automatic restart?	Please select the type of Muting that you need?	And finally, the Timeout required	Go to the relevant table to see the Pin Out for Emitter and Receiver
--	---	---	--	---	---	--

Conf	EDM	Muting Enable	Restart	Muting Type *	Timeout	Follow table	Page
	1 1/50	1			20		
HW	YES	ON	Automatic	LXP	30 sec	1	1
HW	YES YES	ON ON	Automatic Automatic	LXP TX	9 hrs 30 sec	3	1 1
HW	YES	ON	Automatic	TX	9 hrs	4	1
HW	YES	ON	Automatic	TPC	30 sec	5	2
HW	YES	ON	Automatic	TPC	9 hrs	6	2
HW	YES	ON	Automatic	TPS	30 sec	7	2
HW	YES	ON	Automatic	TP S	Infinite	8	2
HW	YES	ON	Manual	LXP	30 sec	9	3
HW	YES	ON	Manual	LXP	9 hrs	10	3
HW	YES	ON	Manual	TX	30 sec	11	3
HW	YES	ON	Manual	TX	9 hrs	12	3
HW	YES	ON	Manual	TP C	30 sec	13	4
HW	YES	ON	Manual	TP C	9 hrs	14	4
HW	YES	ON	Manual	TP S	30 sec	15	4
HW	YES	ON	Manual	TP S	Infinite	16	4
HW	YES	OFF	Automatic	LXP	30 sec	17	5
HW	YES	OFF	Automatic	LXP	9 hrs	18	5
HW	YES	OFF	Automatic	TX	30 sec	19	5
HW	YES	OFF	Automatic	TX	9 hrs	20	5
HW	YES	OFF	Automatic	TP C	30 sec	21	6
HW	YES	OFF	Automatic	TP C	9 hrs	22	6
HW	YES	OFF	Automatic	TP S	30 sec	23	6
HW	YES	OFF	Automatic	TP S	Infinite	24	6
HW	YES	OFF	Manual	LXP	30 sec	25	7
HW	YES	OFF	Manual	LXP	9 hrs	26	7
HW	YES	OFF	Manual	TX	30 sec	27	7
HW	YES	OFF	Manual	TX	9 hrs	28	7
HW	YES	OFF	Manual	TP C	30 sec	29	8
HW	YES	OFF	Manual	TP C	9 hrs	30	8
HW	YES	OFF	Manual	TPS	30 sec	31	8
HW	YES	OFF	Manual	TPS	Infinite	32	8
HW	NO	ON	Automatic	LXP	30 sec	33	9
HW	NO	ON	Automatic	LXP	9 hrs	34	9
HW	NO NO	ON	Automatic Automatic	TX TX	30 sec 9 hrs	35	9
HW	NO	ON ON	Automatic	TPC	30 sec	36	10
HW	NO	ON	Automatic	TPC	9 hrs	37 38	10
HW	NO	ON	Automatic	TPS	30 sec	39	10
HW	NO	ON	Automatic	TP S	Infinite	40	10
HW	NO	ON	Manual	LXP	30 sec	41	11
HW	NO	ON	Manual	LXP	9 hrs	42	11
HW	NO	ON	Manual	TX	30 sec	43	11
HW	NO	ON	Manual	TX	9 hrs	44	11
HW	NO	ON	Manual	TP C	30 sec	45	12
HW	NO	ON	Manual	TP C	9 hrs	46	12
HW	NO	ON	Manual	TPS	30 sec	47	12
HW	NO	ON	Manual	TP S	Infinite	48	12
HW	NO	OFF	Automatic	LXP	30 sec	49	13
HW	NO	OFF	Automatic	LXP	9 hrs	50	13
HW	NO	OFF	Automatic	TX	30 sec	51	13
HW	NO	OFF	Automatic	TX	9 hrs	52	13
HW	NO	OFF	Automatic	TP C	30 sec	53	14
HW	NO	OFF	Automatic	TP C	9 hrs	54	14
HW	NO	OFF	Automatic	TPS	30 sec	55	14
HW	NO	OFF	Automatic	TPS	Infinite	56	14
HW	NO	OFF	Manual	LXP	30 sec	57	15
HW	NO	OFF	Manual	LXP	9 hrs	58	15
HW	NO	OFF	Manual	TX	30 sec	59	15
HW	NO	OFF	Manual	TX	9 hrs	60	15
HW	NO	OFF	Manual	TP C	30 sec	61	16
HW	NO	OFF	Manual	TP C	9 hrs	62	16
HW	NO	OFF	Manual	TP S	30 sec	63	16
HW	NO	OFF	Manual	TP S	Infinite	64	16
Civi	1	All '	an and a trade of the	CCC a-FL			47
SW		All paramete	rs selected via the	2C2 SOLEMBLE		65	17

* Key LXP L-logic, Exit-Only, Crossed or Parallel Beams

TX T-logic, Entry-Exit, Crossed Beams

TP C T-logic, Entry-Exit, Parallel Beams, Concurrent Muting
TP S T-logic, Entry-Exit, Parallel Beams, Sequential Muting



Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Ac	ctive Element		Connect to		Emitte	r (excl. TRX)	
Hardwara	VEC	ON	Automotic	LVD	20.000	Die 1	Danii	241/06	241/06	L Dan an			
Hardware	YES	UN	Automatic	LXP	30 sec					_		241/06	241/06
													24 VDC
													24 VDC
									·				0 VDC
													0 VDC
						_					Gray	PE	GROUND
								_					
						_	_ *		·				24 VDC
									, , , , , , , , , , , , , , , , , , , ,			_	0 VDC
								*	, , ,				0 VDC
						_		_				_	24 VDC
						Pin 12	Red/Blue	STATUS	SEL_A	Pin 5	Gray	PE	GROUND
Hardware	VEC	ON	Automatic	LVD	Q hrs	Din 1	Brown	24.VDC	24.VDC	Low Pango			
Haraware	ILJ	OIV	Automatic	LAF	31113					_	Brown	24 V/DC	24 VDC
													24 VDC 24 VDC
												_	0 VDC
									·				
													0 VDC
						_					Gray	PE	GROUND
								_				241/06	241/06
						_	_ *		· · · · · · · · · · · · · · · · · · ·				24 VDC
									•			_	0 VDC
								•					0 VDC
						_						_	24 VDC
						Pin 12	Red/Blue	STATUS	SEL_B	Pin 5	Gray	PE	GROUND
Hardware	VFS	ON	Automatic	TX	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Pange			
riai awai c	123	0.1	riacomacic	170	30 300					_	Brown	24 VDC	24 VDC
													24 VDC
									·				0 VDC
													0 VDC
													GROUND
						_					Gray	1 -	GROOND
								_	3 3		Brown	24 VDC	24 VDC
							-		· · · · · · · · · · · · · · · · · · ·				0 VDC
						_							0 VDC
								•	. , ,				24 VDC
						_						_	GROUND
						1 111 12	rica/biac	31/103	311_0	11113	didy		GROOND
Hardware	YES	ON	Automatic	TX	9 hrs	Pin 1	Brown	24 VDC	24 VDC	Low Range			
						Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
						Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
						Pin 4	Green	OSSD2	OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
						Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
						Pin 6	Yellow	SEL_A	STATUS	Pin 5	Gray	PE	GROUND
						Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range			
													241/06
						Pin 8	Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
						Pin 8 Pin 9	Red	EDM OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 1 Pin 2	White	24 VDC Range 0	0 VDC
						_	Red		· · · · · · · · · · · · · · · · · · ·				
						Pin 9	Red	OVERRIDE2 OVERRIDE1/RESTART	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
	Hardware	Hardware YES Hardware YES	Hardware YES ON Hardware YES ON	Hardware YES ON Automatic Hardware YES ON Automatic	Hardware YES ON Automatic LXP Hardware YES ON Automatic TX	Hardware YES ON Automatic LXP 9 hrs Hardware YES ON Automatic TX 30 sec	Hardware YES ON Automatic LXP 30 sec Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 1 Pin 12 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 1 Pin 12 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 10 Pin 1	Hardware YES ON Automatic LXP 30 sec Pin 1 Brown Blue Pin 2 Pin 3 Pin 4 Green Pin 5 Pin 10 Pin 10 Pin 10 Pin 11 Pin 12 Pin 11 Pin 12 Pin 11 Pin 12 Pin 13 Pin 14 Pin 14 Pin 15 Pin 15 Pin 16 Pin 16 Pin 17 Pin 18 Pin 19 Pin 10 Pin 10 Pin 10 Pin 11 Pin 11 Pin 12 Pin 11 Pin 12 Pin 11 Pin 12 Pin 12 Pin 13 Pin 14 Pin 14	Hardware YES ON Automatic LXP 30 sec Pin 1 Brown 24 VDC Pin 3 Pin 4 Green OSSD1 Pin 6 Pin 7 Pin 8 Pin 9 Pin 1 Pin 12 Pin 8 Pin 9 Pin 10 P	Nardware YES	Nardware YES ON Automatic LVP 30 sec Pin1 Srown 24 VPC 24 VPC 0 VVC Pin1 Pin2 Mile 0 VVC 0 VVC Pin3 Pin4 White 0 VVC 0 VVC Pin5 Pin6 Pin	Martematic VES	Pardware YFS

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/	Active Element		Connect to		Emitte	r (excl. TRX)	
F	Hardware	YES	ON	Automatic	TP C	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Dage -			
5	пагимаге	163	ON	Automatic	IPC	30 Sec					Low Range	D	241/06	241/06
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	SEL_B	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	STATUS	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range			
							Pin 8	Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	_	OSSD2	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue	STATUS	SEL_A	Pin 5	Gray	PE	GROUND
	Head and	VEC	ON	A	TD C	0.1	D' 4	-	241/06	241/06				
6	Hardware	YES	ON	Automatic	TP C	9 hrs	Pin 1	Brown	24 VDC	24 VDC	Low Range		241/26	241/26
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	SEL_A	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD2	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range	•		
							Pin 8	Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink		STATUS	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue	STATUS	SEL_B	Pin 5	Gray	PE	GROUND
7	Hardware	YES	ON	Automatic	TP S	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Range			
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
												Black	Range 1	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4			
							Pin 6	Pink Yellow	SEL_A	24 VDC	Pin 5	Gray	PE	GROUND
							Pin 6 Pin 7		SEL_A MUT_ENABLE	24 VDC Connect to External Muting Enable Signal	Pin 5 High Ra nge	Gray		
							Pin 6 Pin 7 Pin 8	Yellow Black Gray	SEL_A MUT_ENABLE EDM	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 5 High Range Pin 1	Gray Brown	24 VDC	24 VDC
							Pin 6 Pin 7 Pin 8 Pin 9	Yellow Black	SEL_A MUT_ENABLE EDM OVERRIDE2	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 5 High Range Pin 1 Pin 2	Gray	24 VDC Range 0	24 VDC 0 VDC
							Pin 6 Pin 7 Pin 8 Pin 9 Pin 10	Yellow Black Gray Red Purple	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3	Gray Brown White Blue	24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC
							Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11	Yellow Black Gray Red Purple Gray/Pink	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC	Pin 5 High Range Pin 1 Pin 2	Gray Brown White	24 VDC Range 0	24 VDC 0 VDC 0 VDC 24 VDC
							Pin 6 Pin 7 Pin 8 Pin 9 Pin 10	Yellow Black Gray Red Purple	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3	Gray Brown White Blue	24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC
	Hordware	VEC	CN.	Autoreatie	TDC	lafi- h-	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12	Yellow Black Gray Red Purple Gray/Pink Red/Blue	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Gray Brown White Blue Black Gray	24 VDC Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC 24 VDC
8	Hardware	YES	ON	Automatic	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12	Yellow Black Gray Red Purple Gray/Pink Red/Blue	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Gray Brown White Blue Black Gray	24 VDC Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC 24 VDC GROUND
8	Hardware	YES	ON	Automatic	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1	Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1	Brown White Blue Black Gray	24 VDC Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC 24 VDC GROUND
8	Hardware	YES	ON	Automatic	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3	Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output 24 VDC 0 VDC OSSD1 output	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC
8	Hardware	YES	ON	Automatic	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4	Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output 24 VDC 0 VDC OSSD1 output OSSD2 output	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3	Brown White Blue Black Gray Brown White Blue Blue Blue Blue Blue	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC
8	Hardware	YES	ON	Automatic	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output 24 VDC 0 VDC OSSD1 output OSSD2 output GROUND	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4	Brown White Blue Black Gray Brown White Blue Black	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC
8	Hardware	YES	ON	Automatic	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6	Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output 24 VDC 0 VDC OSSD1 output OSSD2 output GROUND SEL_B and STATUS	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Blue Black Gray	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC
8	Hardware	YES	ON	Automatic	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7	Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow Black	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output 24 VDC 0 VDC 0 SSD1 output OSSD2 output GROUND SEL_B and STATUS Connect to External Muting Enable Signal	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Black Gray Brown White Black Gray Brown White Blue Black Gray	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND
8	Hardware	YES	ON	Automatic	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8	Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow Black Gray	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output 24 VDC 0 VDC OSSD1 output OSSD2 output GROUND SEL_B and STATUS Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1	Brown White Blue Black Gray Brown White Blue Black Gray Brown Blue Black Gray	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC	24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND
8	Hardware	YES	ON	Automatic	TPS	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9	Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow Black Gray Red	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output 24 VDC 0 VDC 0 VDC OSSD1 output GROUND SEL_B and STATUS Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Black Gray Brown White	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC
8	Hardware	YES	ON	Automatic	TPS	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8	Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow Black Gray Red Purple	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE2 OVERRIDE2	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output 24 VDC 0 VDC 0 VDC OSSD1 output GROUND SEL_B and STATUS Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Blue Black Gray Blue Black Gray Blue Black Gray	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 O D O D O D O D O D O D O D O D O D O	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 0 VDC GROUND 24 VDC 0 VDC GROUND
8	Hardware	YES	ON	Automatic	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9	Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow Black Gray Red	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE2 OVERRIDE1/RESTART SEL_B	24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC STATUS output 24 VDC 0 VDC 0 VDC OSSD1 output GROUND SEL_B and STATUS Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Black Gray Brown White	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Active E	ement	Connect to		Emitte	er (excl. TRX)	
	Hardwara	YES	ON	Manual	LXP	20.555	Die 1	241/06	24.400	J D			
9	Hardware	1E3	ON	Manual	LAP	30 sec	Pin 1 Bro Pin 2 Blue		24 VDC 0 VDC	Low Range	Danua	24 VDC	241/06
										Pin 1 Pin 2	Brown		24 VDC 24 VDC
							Pin 3 Whi		SEL_A OSSD2 output	Pin 3	White Blue	Range 0 0 VDC	0 VDC
							Pin 5 Pinl		GROUND	Pin 4	Black		0 VDC
							Pin 6 Yell		OSSD1	Pin 5	Gray	Range 1 PE	GROUND
							Pin 7 Blad		Connect to External Muting Enable Signal	High Range		PE	GROUND
							Pin 8 Gra		Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red		Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Pur		Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
								/Pink SEL_B	24 VDC	Pin 4	Black	Range 1	24 VDC
								/Blue STATUS	STATUS output	Pin 5	Gray	PE PE	GROUND
ш							THITE	5171105	377103 041941	1 1113	Gruy		divodivo
10	Hardware	YES	ON	Manual	LXP	9 hrs	Pin 1 Bro	vn 24 VDC	24 VDC	Low Range			
							Pin 2 Blue		0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 Whi		OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4 Gre		SEL_A	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yell	ow SEL_A	OSSD2	Pin 5	Gray	PE	GROUND
							Pin 7 Blad	k MUT_ENABLE	Connect to External Muting Enable Signal	High Range	_		
							Pin 8 Gra	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Pur	ole OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11 Gra	/Pink SEL_B	24 VDC	Pin 4	Black	Range 1	24 VDC
							Pin 12 Red	/Blue STATUS	STATUS output	Pin 5	Gray	PE	GROUND
													,
11	Hardware	YES	ON	Manual	TX	30 sec	Pin 1 Bro	vn 24 VDC	24 VDC	Low Range			
							Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 Whi	ce OSSD1	SEL_B	Pin 2	White	Range 0	24 VDC
							Pin 4 Gre	en OSSD2	SEL_A	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yell	ow SEL_A	OSSD2	Pin 5	Gray	PE	GROUND
							Pin 7 Blad	-	Connect to External Muting Enable Signal	High Range	_		
							Pin 8 Gray		Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red		Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Pur	•	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
								/Pink SEL_B	OSSD1	Pin 4	Black	Range 1	24 VDC
							Pin 12 Red	/Blue STATUS	STATUS output	Pin 5	Gray	PE	GROUND
42	Hardwara	YES	ON	Manual	TX	0 h	Die 1	24.VDC	24.VDC	I a D			
12	Hardware	152	UN	Manual	IX	9 hrs	Pin 1 Bro		24 VDC	Low Range Pin 1	Provin	241/00	24 VDC
									0 VDC		Brown	24 VDC	
									SEL_A	Pin 2 Pin 3	White	Range 0	24 VDC
							Pin 4 Gre Pin 5 Pinl		SEL_B GROUND	Pin 3 Pin 4	Blue	0 VDC	0 VDC 0 VDC
							Pin 6 Yell		OSSD1	Pin 5	Black Gray	Range 1 PE	GROUND
							Pin 7 Blad	_	Connect to External Muting Enable Signal	High Range		1 L	GNOOND
							_		Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 8 Gray		Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1 Pin 2	White		0 VDC
							Pin 10 Pur		- Connect to Restart (24 VDC)	Pin 2 Pin 3	Blue	Range 0 0 VDC	0 VDC
								/Pink SEL_B	OSSD2	Pin 3 Pin 4	Black	Range 1	24 VDC
								/Blue STATUS	STATUS output	Pin 5		PE	GROUND
1 1	1						PIII 12 Red	DIUE STATUS	21A102 Outhor	PIII 3	Gray	rc.	UKUUND

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/A	ctive Element		Connect to		Emitte	(excl. TRX)	
42	Hardwara	YES	ON	Manual	TP C	30 sec	Die 1	Drougo	24 VDC	24 VDC	Law Dance			
13	Hardware	153	ON	ividiludi	IFC	20.260	Pin 1 Pin 2	Brown	0 VDC	0 VDC	Low Range	Drawa	24 VDC	24 VDC
							Pin 3	Blue White	OSSD1	OSSD1 output	Pin 1	Brown White		24 VDC 24 VDC
							Pin 4	Green	OSSD2	SEL_A and SEL_B	Pin 2 Pin 3	Blue	Range 0 0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD2 and SEL B	Pin 5	Gray	PE PE	GROUND
							Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range		FL	GROUND
							Pin 8	Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE2	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	,	OSSD2 and SEL A	Pin 4	Black	Range 1	24 VDC
							Pin 12	_	STATUS	STATUS output	Pin 5	Gray	PE PE	GROUND
							111112	ixed/blue	JIA103	31ATO3 output	11113	Gray	1 -	GROOND
14	Hardware	YES	ON	Manual	TP C	9 hrs	Pin 1	Brown	24 VDC	24 VDC	Low Range			
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	SEL_A and SEL_B	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD1 and SEL_B	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range			
							Pin 8	Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	SEL B	OSSD1 and SEL_A	Pin 4	Black	Range 1	24 VDC
							Pin 12	_	STATUS	STATUS output	Pin 5	Gray	PE	GROUND
<u> </u>														
15	Hardware	YES	ON	Manual	TP S	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Range			
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	SEL_B	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	24 VDC	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range			
							Pin 8	Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink		OSSD1	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue	STATUS	STATUS output	Pin 5	Gray	PE	GROUND
7	Hondiii	YES	CNI	Manuel	TDC	India:+-	Di- 4	Dan -	241/DC	241/00	1 5			
16	Hardware	YES	ON	Manual	TP S	Infinite	Pin 1 Pin 2	Brown Blue	24 VDC	24 VDC 0 VDC	Low Range	Brown	241/00	241/26
	Tidi divare	123						RILIE				RLOW/D	24 VDC	24 VDC
	riaraware	123							0 VDC		Pin 1		D 0	241/06
	naraware	123					Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
	That a ware	123					Pin 3 Pin 4	White Green	OSSD1 OSSD2	OSSD1 output SEL_B	Pin 2 Pin 3	White Blue	0 VDC	0 VDC
	Trai attai	123					Pin 3 Pin 4 Pin 5	White Green Pink	OSSD1 OSSD2 PE	OSSD1 output SEL_B GROUND	Pin 2 Pin 3 Pin 4	White Blue Black	0 VDC Range 1	0 VDC 0 VDC
	Horonore	123					Pin 3 Pin 4 Pin 5 Pin 6	White Green Pink Yellow	OSSD1 OSSD2 PE SEL_A	OSSD1 output SEL_B GROUND 24 VDC	Pin 2 Pin 3 Pin 4 Pin 5	White Blue Black Gray	0 VDC	0 VDC
	Horonore						Pin 3 Pin 4 Pin 5 Pin 6 Pin 7	White Green Pink Yellow Black	OSSD1 OSSD2 PE SEL_A MUT_ENABLE	OSSD1 output SEL_B GROUND 24 VDC Connect to External Muting Enable Signal	Pin 2 Pin 3 Pin 4 Pin 5 High Range	White Blue Black Gray	0 VDC Range 1 PE	0 VDC 0 VDC GROUND
	Horonore	123					Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8	White Green Pink Yellow Black Gray	OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM	OSSD1 output SEL_B GROUND 24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1	White Blue Black Gray Brown	0 VDC Range 1 PE	0 VDC 0 VDC GROUND 24 VDC
	Horonore	123					Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9	White Green Pink Yellow Black Gray Red	OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2	OSSD1 output SEL_B GROUND 24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	White Blue Black Gray Brown White	0 VDC Range 1 PE 24 VDC Range 0	0 VDC 0 VDC GROUND 24 VDC 0 VDC
	Horonore	123					Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10	White Green Pink Yellow Black Gray Red Purple	OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART	OSSD1 output SEL_B GROUND 24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3	White Blue Black Gray Brown White Blue	0 VDC Range 1 PE 24 VDC Range 0 0 VDC	0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC
	Horonore						Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9	White Green Pink Yellow Black Gray Red	OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B	OSSD1 output SEL_B GROUND 24 VDC Connect to External Muting Enable Signal Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	White Blue Black Gray Brown White	0 VDC Range 1 PE 24 VDC Range 0	0 VDC 0 VDC GROUND 24 VDC 0 VDC

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Active B	Element		Connect to		Emitte	r (excl. TRX)	
17	Hardware	YES	OFF	Automatic	LXP	30 sec	Pin 1 Bro	rown 24 VDC	<u> </u>	24 VDC	Low Range			
' '		. 20	5	7.00000	2	00000	Pin 2 Blu			0 VDC	Pin 1	Brown	24 VDC	24 VDC
								hite OSSD1		SEL_B	Pin 2	White	Range 0	24 VDC
								reen OSSD2		OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pir			GROUND	Pin 4	Black	Range 1	0 VDC
								ellow SEL_A		STATUS and MUTING ENABLE	Pin 5	Gray	PE	GROUND
								ack MUT EI		STATUS and SEL_A	High Range			
							Pin 8 Gra	_		Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Re	-		Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
										Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
								ay/Pink SEL_B		OSSD1	Pin 4	Black	Range 1	24 VDC
								ed/Blue STATUS		SEL_A and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
ш												55		
18	Hardware	YES	OFF	Automatic	LXP	9 hrs	Pin 1 Bro	own 24 VDC	Ĵ.	24 VDC	Low Range			
							Pin 2 Blu	ue 0 VDC		0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 Wh	hite OSSD1		SEL_A	Pin 2	White	Range 0	24 VDC
							Pin 4 Gre	een OSSD2		OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pir	nk PE		GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Ye	ellow SEL_A		OSSD1	Pin 5	Gray	PE	GROUND
							Pin 7 Bla	ack MUT_EI	ENABLE	STATUS and SEL_B	High Range	· <u> </u>		
							Pin 8 Gra	ay EDM		Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Re	ed OVERRI	RIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Pu	ırple OVERRI	RIDE1/RESTART	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11 Gra	ay/Pink SEL_B		STATUS and MUTING_ENABLE	Pin 4	Black	Range 1	24 VDC
							Pin 12 Re	ed/Blue STATUS	S	SEL_B and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
	the state of the	VEC	055	A 1	TV	20	2: 4	241/20		21126				
19	Hardware	YES	OFF	Automatic	TX	30 sec		own 24 VDC		24 VDC	Low Range	D	241/06	241/06
							Pin 2 Blu			0 VDC	Pin 1	Brown	24 VDC	24 VDC
								hite OSSD1		OSSD1 output	Pin 2	White	Range 0	24 VDC
								reen OSSD2		OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pir			GROUND	Pin 4	Black	Range 1	0 VDC
								ellow SEL_A		24 VDC	Pin 5	Gray	PE	GROUND
								ack MUT_EI		SEL_B and STATUS	High Range		24.VDC	241/DC
							Pin 8 Gra	-		Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Re			Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
								ırple OVERRI ay/Pink SEL_B		Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE	Pin 3 Pin 4	Blue Black	0 VDC	0 VDC 24 VDC
													Range 1	
Ш							PIII 12	ed/Blue STATUS	3	SEL_B and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
20	Hardware	YES	OFF	Automatic	TX	9 hrs	Pin 1 Bro	own 24 VDC	Ĉ	24 VDC	Low Range			
							Pin 2 Blu			0 VDC	Pin 1	Brown	24 VDC	24 VDC
								hite OSSD1		OSSD1 output	Pin 2	White	Range 0	24 VDC
								reen OSSD2		OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pir			GROUND	Pin 4	Black	Range 1	0 VDC
								ellow SEL_A		STATUS and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
							Pin 7			STATUS and SEL_A	High Range			
							Pin 8 Gra			Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Re			Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
										Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
								ay/Pink SEL_B		24 VDC	Pin 4	Black	Range 1	24 VDC
								ed/Blue STATUS		SEL_A and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Ac	tive Element	:	Connect to		Emitte	r (excl. TRX)	
21	Hardware	YES	OFF	Automatic	TP C	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Range			
-'		. 20	5	7.0.0	0	55 555	Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	SEL_B	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	STATUS and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT ENABLE	STATUS and SEL A	High Range		1 -	GROOND
							Pin 8	Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	-	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White		0 VDC
							Pin 10	Red Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	Range 0 0 VDC	0 VDC
							Pin 11	Gray/Pink	*	OSSD2	Pin 4	Black		24 VDC
								Red/Blue	_			_	Range 1	
							Pin 12	Red/Blue	STATUS	SEL_A and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
22	Hardware	YES	OFF	Automatic	TP C	9 hrs	Pin 1	Brown	24 VDC	24 VDC	Low Range			
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	SEL_A	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD2	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT ENABLE	SEL B and STATUS	High Range			0.10 0.11
							Pin 8	Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	•	MUTING _ENABLE and STATUS	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue		MUTING _ENABLE and SEL_B	Pin 5	Gray	PE PE	GROUND
							2	1100/3100	555		3	0.09		0.100.15
23	Hardware	YES	OFF	Automatic	TP S	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Range			
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
											FIIIZ		0 VDC	0 VDC
							Pin 4	Green	OSSD2	OSSD2 output	Pin 3	Blue	OVDC	
							Pin 4 Pin 5	Green Pink	OSSD2 PE	OSSD2 output GROUND		Blue Black	Range 1	0 VDC
										·	Pin 3			0 VDC GROUND
							Pin 5	Pink	PE	GROUND	Pin 3 Pin 4	Black Gray	Range 1	
							Pin 5 Pin 6	Pink Yellow	PE SEL_A	GROUND 24 VDC	Pin 3 Pin 4 Pin 5	Black Gray	Range 1	
							Pin 5 Pin 6 Pin 7	Pink Yellow Black	PE SEL_A MUT_ENABLE	GROUND 24 VDC STATUS	Pin 3 Pin 4 Pin 5 High Range	Black Gray	Range 1 PE	GROUND
							Pin 5 Pin 6 Pin 7 Pin 8	Pink Yellow Black Gray	PE SEL_A MUT_ENABLE EDM	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 3 Pin 4 Pin 5 High Range Pin 1	Black Gray Brown	Range 1 PE 24 VDC	GROUND 24 VDC
							Pin 5 Pin 6 Pin 7 Pin 8 Pin 9	Pink Yellow Black Gray Red	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	Black Gray Brown White	Range 1 PE 24 VDC Range 0	GROUND 24 VDC 0 VDC
							Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10	Pink Yellow Black Gray Red Purple	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3	Black Gray Brown White Blue	Range 1 PE 24 VDC Range 0 0 VDC	GROUND 24 VDC 0 VDC 0 VDC
							Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING _ENABLE	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Black Gray Brown White Blue Black Gray	Range 1 PE 24 VDC Range 0 0 VDC Range 1	GROUND 24 VDC 0 VDC 0 VDC 24 VDC
24	Hardware	YES	OFF	Automatic	TP S	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Black Gray Brown White Blue Black Gray	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE	GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND
24	Hardware	YES	OFF	Automatic	TP S	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE 24 VDC 0 VDC	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Black Gray Brown White Blue Black Gray Brown	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE	GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND
24	Hardware	YES	OFF	Automatic	TP S	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE 24 VDC 0 VDC OSSD1 output	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2	Black Gray Brown White Blue Black Gray Brown White	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0	GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC
24	Hardware	YES	OFF	Automatic	TP S	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE 24 VDC 0 VDC OSSD1 output OSSD2 output	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3	Black Gray Brown White Blue Black Gray Brown White Blue Blue Blue Blue Blue	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC
24	Hardware	YES	OFF	Automatic	TP S	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE 24 VDC 0 VDC OSSD1 output OSSD2 output GROUND	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Black Gray Brown White Blue Black Gray Brown White Blue Black Blue Blue Black	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 0 VDC Range 1	GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC
24	Hardware	YES	OFF	Automatic	TP S	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE 24 VDC 0 VDC 0 VDC OSSD1 output GROUND MUTING_ENABLE and SEL_B and STATUS	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Black Gray Brown White Blue Black Gray Brown White Blue Blue Black Gray	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC
24	Hardware	YES	OFF	Automatic	TP S	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow Black	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE 24 VDC 0 VDC OSSD1 output OSSD2 output GROUND MUTING_ENABLE and SEL_B and STATUS SEL_A and SEL_B and STATUS	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Black Gray Brown White Blue Black Gray Brown White Blue Gray	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 1 VDC Range 1 PE	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND
24	Hardware	YES	OFF	Automatic	TP S	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow Black Gray	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE 24 VDC 0 VDC 0 SSD1 output OSSD2 output GROUND MUTING_ENABLE and SEL_B and STATUS SEL_A and SEL_B and STATUS Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1	Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown Blue Black Black Blue Black	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND
24	Hardware	YES	OFF	Automatic	TPS	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow Black Gray Red	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE 24 VDC 0 VDC 0 SSD1 output GROUND MUTING_ENABLE and SEL_B and STATUS SEL_A and SEL_B and STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 5	Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC GROUND
24	Hardware	YES	OFF	Automatic	TPS	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow Black Gray Red Purple	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE2 OVERRIDE2 OVERRIDE2	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE 24 VDC 0 VDC 0 SSD1 output OSSD2 output GROUND MUTING_ENABLE and SEL_B and STATUS SEL_A and SEL_B and STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 5 High Range Pin 1 Pin 2 Pin 3	Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Blue Black Gray Blue Black Gray	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 0 0 VDC O VDC Range 0 0 VDC	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC 0 VDC 0 VDC
24	Hardware	YES	OFF	Automatic	TP S	Infinite	Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9	Pink Yellow Black Gray Red Purple Gray/Pink Red/Blue Brown Blue White Green Pink Yellow Black Gray Red	PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE2 OVERRIDE1/RESTART SEL_B	GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) 24 VDC MUTING_ENABLE 24 VDC 0 VDC 0 SSD1 output GROUND MUTING_ENABLE and SEL_B and STATUS SEL_A and SEL_B and STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 5	Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray	Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC GROUND

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Active Elem	ent	Connect to		Emitte	r (excl. TRX)	
25	Hardware	YES	OFF	Manual	LXP	30 sec	Pin 1 Brown	24 VDC	24 VDC	Low Range			
23	Haraware	123	011	Widiladi	LAI	30 300	Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	SEL_A	Pin 2	White	Range 0	24 VDC
							Pin 4 Green	OSSD2	OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yellow	SEL_A	OSSD1	Pin 5	Gray	PE	GROUND
							Pin 7 Black	MUT_ENABLE	STATUS	High Range			0.100115
							Pin 8 Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
								nk SEL_B	24 VDC	Pin 4	Black	Range 1	24 VDC
							Pin 12 Red/Bli	_	MUTING_ENABLE	Pin 5	Gray	PE	GROUND
ш											3.39		
26	Hardware	YES	OFF	Manual	LXP	9 hrs	Pin 1 Brown	24 VDC	24 VDC	Low Range			
							Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4 Green	OSSD2	SEL_A	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yellow	SEL_A	OSSD2	Pin 5	Gray	PE	GROUND
							Pin 7 Black	MUT_ENABLE	STATUS	High Range			
							Pin 8 Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11 Gray/Pi	nk SEL_B	24 VDC	Pin 4	Black	Range 1	24 VDC
							Pin 12 Red/Bli	ue STATUS	MUTING_ENABLE	Pin 5	Gray	PE	GROUND
	- Head and	VEC	055		TV	20	8: 4	241/26	21106				
27	Hardware	YES	OFF	Manual	TX	30 sec	Pin 1 Brown	24 VDC	24 VDC	Low Range	D	241/06	241/06
							Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	SEL_B	Pin 2	White	Range 0	24 VDC
							Pin 4 Green Pin 5 Pink	OSSD2 PE	SEL_A GROUND	Pin 3 Pin 4	Blue	0 VDC	0 VDC
							PIII 5		GROUND		Black	Range 1	0 VDC
							Dia C Vallau	CEL A	OCCD3		Csau	DE	CDOLIND
							Pin 6 Yellow	SEL_A	OSSD2	Pin 5	Gray	PE	GROUND
							Pin 7 Black	MUT_ENABLE	STATUS	Pin 5 High Range	_		
							Pin 7 Black Pin 8 Gray	MUT_ENABLE EDM	STATUS Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 5 High Range Pin 1	Brown	24 VDC	24 VDC
							Pin 7 Black Pin 8 Gray Pin 9 Red	MUT_ENABLE EDM OVERRIDE2	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 5 High Range Pin 1 Pin 2	Brown White	24 VDC Range 0	24 VDC 0 VDC
							Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3	Brown White Blue	24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC
							Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Black Gray Red Purple Pin 11 Gray/Pi	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART nk SEL_B	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4	Brown White Blue Black	24 VDC Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC 24 VDC
							Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Black Gray Red Purple Pin 11 Gray/Pi	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3	Brown White Blue	24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Black Gray Red Purple Pin 11 Gray/Pi	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART nk SEL_B	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4	Brown White Blue Black Gray	24 VDC Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC 24 VDC
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Pin 8 Gray Pin 9 Red Pin 10 Pin 11 Gray/Pi Pin 12 Red/Blu	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART nk SEL_B ue STATUS	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray	24 VDC Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC 24 VDC
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple Pin 11 Gray/Pi Pin 12 Red/Bli Pin 1 Brown	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART nk SEL_B ue STATUS	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray	24 VDC Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC 24 VDC GROUND
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 1 Pin 1 Pin 2 Pin 1 Brown Pin 2 Black Black Gray Purple Gray/Pi Red/Bla	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART nk SEL_B ue STATUS 24 VDC 0 VDC	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1	Brown White Blue Black Gray Brown	24 VDC Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC 24 VDC GROUND
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Black Gray Red Purple Purple Red/Blu Brown Blue Pin 3 White	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART nk SEL_B ue STATUS 24 VDC 0 VDC OSSD1	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC SEL_A	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 4 Black Gray Purple Purple Red Purple Red/Blue Purple Red/Blue Red/Blue Green	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART nk SEL_B Jue STATUS 24 VDC 0 VDC OSSD1 OSSD2	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC SEL_A SEL_B	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3	Brown White Blue Black Gray Brown White Blue	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 4 Pin 5 Pin 8 Gray Purple Purple Purple Red/Blue Purple Red/Blue Pin 3 White Pin 4 Pin 5 Pin 4	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART nk SEL_B Je STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC SEL_A SEL_B GROUND	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4	Brown White Blue Black Gray Brown White Blue Black Gray	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Pin 8 Pin 9 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 4 Pin 5 Pin 6 Pin 6 Plack Gray Purple Purple Purple Red/Black Purple Red/Black Purple Red/Black Purple Red/Black Red/Black Purple Red/Black Red/Black Red/Black Purple Red/Black	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART nk SEL_B ue STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC SEL_A SEL_B GROUND OSSD1	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Black Gray	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Pin 8 Pin 9 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 3 Pin 4 Pin 4 Pin 5 Pin 6 Pin 6 Pin 7 Pin 7 Place Pin 7 Place Pin 7 Place Prin 8 Prin 9 Prin 1 Prin 1 Prin 1 Prin 1 Prin 1 Prin 2 Prin 3 Prin 4 Prin 5 Prin 6 Prin 6 Prin 7 Prin 6 Prin 7 Prin 7 Prin 8 Prin 7 Prin 8 Prin 9 Prin 1 P	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART NK SEL_B LIE STATUS 24 VDC 0 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC SEL_A SEL_B GROUND OSSD1 STATUS	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown White Blue Blue Black Gray	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 3 Pin 4 Pin 4 Pin 5 Pin 6 Pin 6 Pin 7 Pin 7 Pin 8 Pin 8 Pin 8 Pin 7 Pin 8 Pin 9 Pi	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART NK SEL_B LIE STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC SEL_A SEL_B GROUND OSSD1 STATUS Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1	Brown White Blue Black Gray Brown White Blue Black Gray Brown	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND
28	Hardware	YES	OFF	Manual	TX	9 hrs	Pin 7 Pin 8 Pin 9 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 6 Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 9 Pin 10 Purple	MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART nk SEL_B status 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2	STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC SEL_A SEL_B GROUND OSSD1 STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Black Gray	24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 Range 0	24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC GROUND 24 VDC 0 VDC

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Active Elemen	t	Connect to		Emitte	r (excl. TRX)	
29	Hardware	YES	OFF	Manual	TP C	30 sec	Pin 1 Brown	24 VDC	24 VDC	Low Range			
-		. 20	5		0	50 505	Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4 Green	OSSD2	SEL_A and SEL_B	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yellow	SEL_A	OSSD2 and SEL B	Pin 5	Gray	PE	GROUND
							Pin 7 Black	MUT ENABLE	Connect to Restart (24 VDC)	High Range		. =	0.1001.15
							Pin 8 Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11 Gray/Pink	•	OSSD2 and SEL_A	Pin 4	Black	Range 1	24 VDC
							Pin 12 Red/Blue		MUTING_ENABLE	Pin 5	Gray	PE	GROUND
Ш							Till 12 Red/blue	SIATOS	MOTING_LIABLE	11113	dray	1 -	divoling
30	Hardware	YES	OFF	Manual	TP C	9 hrs	Pin 1 Brown	24 VDC	24 VDC	Low Range			
							Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	SEL_A and SEL_B	Pin 2	White	Range 0	24 VDC
							Pin 4 Green	OSSD2	OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yellow	SEL_A	OSSD1 and SEL_B	Pin 5	Gray	PE	GROUND
							Pin 7 Black	MUT_ENABLE	STATUS	High Range			
							Pin 8 Gray	EDM	Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11 Gray/Pink	•	OSSD1 and SEL_A	Pin 4	Black	Range 1	24 VDC
							Pin 12 Red/Blue		MUTING_ENABLE	Pin 5	Gray	PE	GROUND
ш									· · · · · · · · · · · · · · · · · · ·		5. 5,		
31	Hardware	YES	OFF	Manual	TP S	30 sec	Pin 1 Brown	24 VDC	24 VDC	Low Range			
							Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	SEL_B	Pin 2	White	Range 0	24 VDC
							Pin 4 Green	OSSD2	OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
											Black	Dance 1	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	DIACK	Range 1	
							Pin 5 Pink Pin 6 Yellow	PE SEL_A	GROUND 24 VDC	Pin 4 Pin 5	Gray	PE	GROUND
												_	
							Pin 6 Yellow	SEL_A	24 VDC	Pin 5		_	
							Pin 6 Yellow Pin 7 Black	SEL_A MUT_ENABLE	24 VDC STATUS	Pin 5 High Range	Gray	PE	GROUND
							Pin 6 Yellow Pin 7 Black Pin 8 Gray	SEL_A MUT_ENABLE EDM	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 5 High Range Pin 1	Gray	PE 24 VDC	GROUND 24 VDC
							Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 5 High Range Pin 1 Pin 2	Gray Brown White	PE 24 VDC Range 0	GROUND 24 VDC 0 VDC
							Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3	Gray Brown White Blue	PE 24 VDC Range 0 0 VDC	GROUND 24 VDC 0 VDC 0 VDC
							Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple Pin 11 Gray/Pink Pin 12 Red/Blue	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black	PE 24 VDC Range 0 0 VDC Range 1	GROUND 24 VDC 0 VDC 0 VDC 24 VDC
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple Pin 11 Gray/Pink Pin 12 Red/Blue Pin 1 Brown	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray	PE 24 VDC Range 0 0 VDC Range 1 PE	GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple Pin 11 Gray/Pink Pin 12 Red/Blue	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown	PE 24 VDC Range 0 0 VDC Range 1	GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple Pin 11 Gray/Pink Pin 12 Red/Blue Pin 1 Brown Pin 2 Blue Pin 3 White	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White	PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0	GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Purple Pin 11 Pin 12 Pin 1 Pin 1 Pin 2 Pin 3 Pin 4 Pin 4 Pin 4 Pin 4 Pin 4 Pin 4 Pin 6 Pin 1 Pin 1 Pin 1 Pin 1 Pin 1 Pin 3 Pin 4 Pin 4 Pin 4 Pin 4 Pin 6 Pin 1 Pin 7 Pin 1 Pin 1 Pin 1 Pin 1 Pin 1 Pin 3 Pin 4 Pin 4 Pin 4 Pin 4 Pin 6 Pin 7 Pin 7 Pin 7 Pin 7 Pin 8 Pin 9 Pin 1 Pin 9 Pin 1 Pin 9 Pin 1 Pin 9 Pin 1 Pin 9 Pi	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output SEL_B	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3	Brown White Blue Black Gray Brown White Blue Blue Blue	PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple Pin 11 Gray/Pink Pin 12 Red/Blue Pin 1 Brown Pin 2 Blue Pin 3 White	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output SEL_B GROUND	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White	PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 Range 1	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC 0 VDC
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pillow Pellow Pellow Pellow Pin 6 Pellow	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output SEL_B	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Black Gray	PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pellow Plack Pin 6 Purple Purple Purple Purple Red/Blue Pin 1 Brown Blue Pin 3 White Pin 4 Pin 5 Pink	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output SEL_B GROUND	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4	Brown White Blue Black Gray Brown White Blue Blue Blue Gray	PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 Range 1	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC 0 VDC
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pillow Pellow Pellow Pellow Pin 6 Pellow	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output SEL_B GROUND 24 VDC	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Black Gray	PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 Range 1	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC 0 VDC
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Purple Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 4 Pin 5 Pin 6 Pin 7 Pilow Pilow Pin 7 Pllow Pllow Pin 7 Pllow Pllow Pllow Plin 7 Pllow Pllow Plin 7 Pllow Plin 7 Pllow Plack Plin 7 Pllow Plack Plac	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output SEL_B GROUND 24 VDC STATUS	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown White Blue Blue Blue Gray	PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE PE	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC 0 VDC GROUND
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 4 Pin 5 Pin 4 Pin 6 Pin 7 Pin 7 Pin 8 Pin 8 Pin 8 Pin 8 Pin 8 Pin 8 Pin 9 Pin 1 Pin 1 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 4 Pin 5 Pin 6 Pin 7 Pin 6 Pin 7 Pin 8 Pin 8 Pin 8 Pin 8 Pin 8 Pin 9 Pin 9 Pin 9 Pin 9 Pin 10 Pin	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM	24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output SEL_B GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1	Brown White Black Gray Brown White Blue Black Gray Brown White Blue Black Gray	PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND
32	Hardware	YES	OFF	Manual	TP S	Infinite	Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Purple Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 4 Pin 5 Pin 6 Pin 6 Pin 7 Pin 8 Pin 8 Pin 8 Pin 9 Red Pin 9 Red Pin 9 Red	SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE2 OVERRIDE2	24 VDC Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output SEL_B GROUND 24 VDC STATUS Connect to the series of N.C. contacts (connected to 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray	PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 Range 1	GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC GROUND

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Active El	ement	Connect to		Emitte	r (excl. TRX)	
[22]	Hardwara	NO	ON	Automatic	LXP	30 sec	Dio 1 Drop	24.VDC	24 VDC	Law Dance			
33	Hardware	NO	ON	Automatic	LAP	20.260	Pin 1 Brov			Low Range	Danua	241/06	241/06
							Pin 2 Blue		0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 Whi		SEL_B EDM	Pin 2	White	Range 0	24 VDC 0 VDC
							Pin 4 Gree			Pin 3	Blue	0 VDC	
							Pin 5 Pink		GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yello	-	STATUS Consort to Fortestal Mutica Fachla Cincal	Pin 5	Gray	PE	GROUND
							Pin 7 Blac	_	Connect to External Muting Enable Signal	High Range	Danus	241/06	241/06
							Pin 8 Gray		OSSD2	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red Pin 10 Pur	OVERRIDE2 ole OVERRIDE1/RESTART	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2 Pin 3	White	Range 0	0 VDC
								/Pink SEL_B	Connect to Override command (N.O., 24 VDC) OSSD1	Pin 4	Blue	0 VDC	0 VDC
								/PIIIK SEL_B /Blue STATUS		Pin 5	Black	Range 1	24 VDC GROUND
Ш							PIII 12	blue STATUS	SEL_A	PIII 3	Gray	PE	GROUND
34	Hardware	NO	ON	Automatic	LXP	9 hrs	Pin 1 Brov	vn 24 VDC	24 VDC	Low Range			
							Pin 2 Blue		0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 Whi		SEL_A	Pin 2	White	Range 0	24 VDC
							Pin 4 Gree		EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink		GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yello		OSSD1	Pin 5	Gray	PE	GROUND
							Pin 7		Connect to External Muting Enable Signal	High Range			!
							Pin 8 Gray		OSSD2	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Pur		Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11 Gray	/Pink SEL_B	STATUS	Pin 4	Black	Range 1	24 VDC
								/Blue STATUS	SEL B	Pin 5	Gray	PE	GROUND
ш													
35	Hardware	NO	ON	Automatic	TX	30 sec	Pin 1 Brow	vn 24 VDC	24 VDC	Low Range			
							Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 Whi	e OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4 Gree	n OSSD2	EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yell	ow SEL_A	24 VDC	Pin 5	Gray	PE	GROUND
							Pin 7 Blac	k MUT_ENABLE	Connect to External Muting Enable Signal	High Range			!
							Pin 8 Gray	EDM	OSSD2	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Purp	,	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
								/Pink SEL_B	STATUS	Pin 4	Black	Range 1	24 VDC
Ш							Pin 12 Red	Blue STATUS	SEL B	Pin 5	Gray	PE	GROUND
25	Hondussis	NO	CN	Autoristis	TV	0 5	Dia 4	241/06	24//00	1 5			
36	Hardware	NO	ON	Automatic	TX	9 hrs	Pin 1 Brov		24 VDC	Low Range	Desirie	241/50	241/06
							Pin 2 Blue		0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 Whi		OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4 Gree Pin 5 Pink		EDM GROUND	Pin 3	Blue Black	0 VDC Range 1	0 VDC 0 VDC
							Pin 6 Yell		STATUS	Pin 4 Pin 5		PE	GROUND
							Pin 7 Blac				Gray	FE	GROUND
							LIII I BIGO	k MUT_ENABLE	Connect to External Muting Enable Signal	High Range	_		
							Din 0	EDM	OCCD3	Din 1	Drawa	241/00	241/00
							Pin 8 Gray		OSSD2	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 9 Red Pin 10 Purp	OVERRIDE2 ole OVERRIDE1/RESTART	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 2 Pin 3	White Blue	Range 0 0 VDC	0 VDC 0 VDC
							Pin 9 Red Pin 10 Purp Pin 11 Gray	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Act	ive Element	t	Connect to		Emitte	r (excl. TRX)	
37	Hardware	NO	ON	Automatic	TP C	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Range			
				7.0.0	•	55 555	Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	EDM and SEL B	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	STATUS	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range			
							Pin 8	Gray	EDM	OSSD2 and SEL_B	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	SEL_B	OSSD2 and EDM	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue	STATUS	SEL_A	Pin 5	Gray	PE	GROUND
38	Hardware	NO	ON	Automatic	TP C	9 hrs	Pin 1	Brown	24 VDC	24 VDC	Low Range			
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	SEL_A and EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD2 and EDM	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range	_		
							Pin 8	Gray	EDM	OSSD2 and SEL_A	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink		STATUS	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue	STATUS	SEL_B	Pin 5	Gray	PE	GROUND
39	Hardware	NO	ON	Automatic	TP S	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Range			
	- narana		5	7.0.0	0	55 555	Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	24 VDC	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range			
							Pin 8	Gray	EDM	OSSD2	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	SEL_B	24 VDC	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue	STATUS	STATUS output	Pin 5	Gray	PE	GROUND
42	Handin	NO	611	A. tana at the	TDC	ladi. 11	D's 4	D	241/06	244/05				
40	Hardware	NO	ON	Automatic	TP S	Infinite	Pin 1 Pin 2	Brown Blue	24 VDC 0 VDC	24 VDC 0 VDC	Low Range Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC 24 VDC
							Pin 4		OSSD2	EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 4 Pin 5	Green Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	STATUS and SEL B	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range		1 L	GIVOOIAD
							Pin 7 Pin 8	Gray	EDM EDM	OSSD2		Brown	24 VDC	24 VDC
							Pin 8 Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 1 Pin 2	White		0 VDC
							Pin 9 Pin 10	Rea Purple	OVERRIDE2 OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 2 Pin 3	Blue	Range 0 0 VDC	0 VDC
							Pin 10 Pin 11	Gray/Pink	•	SEL_A and STATUS	Pin 3 Pin 4	Black	Range 1	24 VDC
								Red/Blue		SEL_A and SEL_B	Pin 4 Pin 5			GROUND
1 1	I						PIII IZ	אפט/סוטפ	SIAIUS	JLL_M ailU JEL_D	PIII 3	Gray	PE	UKUUNU

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Activ	e Element		Connect to		Emitte	(excl. TRX)	
41	Hardwaro	NO	ON	Manual	LXP	30 sec	Pin 1	Prou	24.VDC	24 VDC	Low Dange			
41	Hardware	NO	ON	ivialiuai	LAP	30 Sec		Brown	24 VDC	0 VDC	Low Range	Drown	241/00	24 VDC
								Blue White	0 VDC OSSD1	SEL_A	Pin 1 Pin 2	Brown White	24 VDC	24 VDC 24 VDC
								Green	OSSD2	EDM	Pin 3	Blue	Range 0 0 VDC	0 VDC
								Pink	PE PE	GROUND	Pin 4	Black	Range 1	0 VDC
								Yellow	SEL_A	OSSD1	Pin 5	Gray	PE PE	GROUND
								Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range		FL	GROOND
								Gray	EDM	OSSD2	Pin 1	Brown	24 VDC	24 VDC
								Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
									OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
								Gray/Pink	,	24 VDC	Pin 4	Black	Range 1	24 VDC
									STATUS	STATUS output	Pin 5	Gray	PE PE	GROUND
							111112	red/blue	JIAIOJ	31A103 output	11113	diay	1 -	divoling
42	Hardware	NO	ON	Manual	LXP	9 hrs	Pin 1	Brown	24 VDC	24 VDC	Low Range			
'-								Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
								White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
								Green	OSSD2	SEL A and EDM	Pin 3	Blue	0 VDC	0 VDC
								Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
									SEL_A	OSSD2 and EDM	Pin 5	Gray	PE	GROUND
								Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range			
								Gray	EDM	OSSD2 and SEL A	Pin 1	Brown	24 VDC	24 VDC
								Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
								Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	,	24 VDC	Pin 4	Black	Range 1	24 VDC
									STATUS	STATUS output	Pin 5	Gray	PE	GROUND
<u> </u>							_							
43	Hardware	NO	ON	Manual	TX	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Range			
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	SEL_B	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	SEL_A and EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD2 and EDM	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range			
							Pin 8	Gray	EDM	OSSD2 and SEL_A	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
									OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
								Gray/Pink		OSSD1	Pin 4	Black	Range 1	24 VDC
Ш							Pin 12	Red/Blue	STATUS	STATUS output	Pin 5	Gray	PE	GROUND
	Hand	NO	CN	Man I	TV	0.1	D'- 4	D	241/06	241/06				
44	Hardware	NO	ON	Manual	TX	9 hrs			24 VDC	24 VDC	Low Range	-	241/26	241/56
									0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
								White	OSSD1	SEL_A	Pin 2	White	Range 0	24 VDC
								Green	OSSD2	SEL_B and EDM	Pin 3	Blue	0 VDC	0 VDC
								Pink	PE CEL A	GROUND	Pin 4	Black	Range 1	0 VDC
									SEL_A	OSSD1	Pin 5	Gray	PE	GROUND
								Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range		241/26	241/56
								Gray	EDM OVERDIDES	OSSD2 and SEL_B	Pin 1	Brown	24 VDC	24 VDC
							D:- ^							
								Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 10 Pin 11		OVERRIDE1/RESTART SEL_B				_	

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Active Eleme	nt	Connect to		Emitte	r (excl. TRX)	
45	Hardware	NO	ON	Manual	TP C	30 sec	Pin 1 Brown	24 VDC	24 VDC	Low Range			
7			5		•	55 555	Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4 Green	OSSD2	SEL_A and SEL_B and EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yellow	SEL_A	OSSD2 and SEL B and EDM	Pin 5	Gray	PE	GROUND
							Pin 7 Black	MUT ENABLE	Connect to External Muting Enable Signal	High Range			
							Pin 8 Gray	EDM	OSSD2 and SEL_A and SEL_B	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11 Gray/Pin	k SEL_B	OSSD2 and SEL_A and EDM	Pin 4	Black	Range 1	24 VDC
							Pin 12 Red/Blue	STATUS	STATUS output	Pin 5	Gray	PE	GROUND
46	Hardware	NO	ON	Manual	TP C	9 hrs	Pin 1 Brown	24 VDC	24 VDC	Low Dange			
46	Haruware	NO	ON	ivialiual	IF C	31113	Pin 1 Brown Pin 2 Blue	0 VDC	0 VDC	Low Range Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	SEL_A and SEL_B	Pin 1 Pin 2	White		24 VDC 24 VDC
							Pin 4 Green	OSSD2	EDM	Pin 3	Blue	Range 0 0 VDC	0 VDC
							Pin 5 Pink	PE PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yellow	SEL_A	OSSD1 and SEL_B	Pin 5	Gray	PE PE	GROUND
							Pin 7 Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range			GNOOND
							Pin 8 Gray	EDM	OSSD2	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
								k SEL_B	OSSD1 and SEL A	Pin 4	Black	Range 1	24 VDC
								STATUS	STATUS output	Pin 5	Gray	PE	GROUND
47	Hardware	NO	ON	Manual	TP S	30 sec	Pin 1 Brown	24 VDC	24 VDC	Low Range			
							Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	SEL_B	Pin 2	White	Range 0	24 VDC
							Pin 4 Green	OSSD2	EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yellow	SEL_A	24 VDC	Pin 5	Gray	PE	GROUND
							Pin 7 Black	MUT_ENABLE	Connect to External Muting Enable Signal	High Range			
	1						Pin 8 Gray	EDM	OSSD2	Pin 1	Brown	24 VDC	24 VDC
1 1							D'- 0	O) (EDDIDES	6	D:	1.4.4		
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 10 Purple Pin 11 Gray/Pin	OVERRIDE1/RESTART SEL_B	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1	Pin 3 Pin 4	Blue Black	0 VDC Range 1	0 VDC 24 VDC
							Pin 10 Purple Pin 11 Gray/Pin	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin	OVERRIDE1/RESTART SEL_B	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1	Pin 3 Pin 4	Blue Black	0 VDC Range 1	0 VDC 24 VDC
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin Pin 12 Red/Blue	OVERRIDE1/RESTART < SEL_B STATUS	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 STATUS output	Pin 3 Pin 4 Pin 5	Blue Black	0 VDC Range 1	0 VDC 24 VDC
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin Pin 12 Red/Blue Pin 1 Brown	OVERRIDE1/RESTART SEL_B STATUS 24 VDC	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 STATUS output 24 VDC	Pin 3 Pin 4 Pin 5	Blue Black Gray	0 VDC Range 1 PE	0 VDC 24 VDC GROUND
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin Pin 12 Red/Blue Pin 1 Brown Pin 2 Blue	OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 STATUS output 24 VDC 0 VDC	Pin 3 Pin 4 Pin 5 Low Range Pin 1	Blue Black Gray	0 VDC Range 1 PE	0 VDC 24 VDC GROUND
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin Pin 12 Red/Blue Pin 1 Brown Pin 2 Blue Pin 3 White	OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 STATUS output 24 VDC 0 VDC OSSD1 output	Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2	Blue Black Gray Brown White	0 VDC Range 1 PE 24 VDC Range 0	0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin Pin 12 Red/Blue Pin 1 Brown Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink Pin 6 Yellow	OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 STATUS output 24 VDC 0 VDC OSSD1 output SEL_B and EDM GROUND 24 VDC	Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Blue Black Gray Brown White Blue Black Gray	0 VDC Range 1 PE 24 VDC Range 0 0 VDC	0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin Pin 12 Red/Blue Pin 1 Brown Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink	OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 STATUS output 24 VDC 0 VDC OSSD1 output SEL_B and EDM GROUND	Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4	Blue Black Gray Brown White Blue Black Gray	0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1	0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin Pin 12 Red/Blue Pin 1 Brown Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink Pin 6 Yellow	OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 STATUS output 24 VDC 0 VDC OSSD1 output SEL_B and EDM GROUND 24 VDC Connect to External Muting Enable Signal OSSD2 and SEL_B	Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Blue Black Gray Brown White Blue Black Gray Brown	0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1	0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin Pin 12 Red/Blue Pin 1 Brown Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red	OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 STATUS output 24 VDC 0 VDC OSSD1 output SEL_B and EDM GROUND 24 VDC Connect to External Muting Enable Signal OSSD2 and SEL_B Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Blue Black Gray Brown White Blue Black Gray	0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE	0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC GROUND 24 VDC GROUND
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin Pin 12 Red/Blue Pin 1 Brown Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple	OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 STATUS output 24 VDC 0 VDC OSSD1 output SEL_B and EDM GROUND 24 VDC Connect to External Muting Enable Signal OSSD2 and SEL_B Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 2	Blue Black Gray Brown White Blue Black Gray Brown	0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 OVDC Range 0 0 VDC	0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC 0 VDC GROUND
48	Hardware	NO	ON	Manual	TP S	Infinite	Pin 10 Purple Pin 11 Gray/Pin Pin 12 Red/Blue Pin 1 Brown Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple Pin 11 Gray/Pin	OVERRIDE1/RESTART SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 STATUS output 24 VDC 0 VDC OSSD1 output SEL_B and EDM GROUND 24 VDC Connect to External Muting Enable Signal OSSD2 and SEL_B Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	Blue Black Gray Brown White Blue Black Gray Brown White	0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 Range 0	0 VDC 24 VDC GROUND 24 VDC 24 VDC 0 VDC GROUND 24 VDC GROUND

July 2020



	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Active	Element	Connect to		Emitte	r (excl. TRX)	
49	Hardware	NO	OFF	Automatic	LXP	30 sec	Pin 1 Br	rown 24 VDC	24 VDC	Low Range			
49	Haraware	NO	OH	Automatic	LAI	30 300		ue 0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
								hite OSSD1	SEL_B	Pin 2	White	Range 0	24 VDC
							_	reen OSSD2	EDM	Pin 3	Blue	0 VDC	0 VDC
								nk PE	GROUND	Pin 4	Black	Range 1	0 VDC
								ellow SEL_A	STATUS and MUTING_ENABLE	Pin 5	Gray	PE .	GROUND
								ack MUT ENABLE	SEL_A and STATUS	High Range		. =	5.10 5.15
							_	ray EDM	OSSD2	Pin 1	Brown	24 VDC	24 VDC
							_	ed OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
								urple OVERRIDE1/RESTART		Pin 3	Blue	0 VDC	0 VDC
								ray/Pink SEL_B	OSSD1	Pin 4	Black	Range 1	24 VDC
							_	ed/Blue STATUS	SEL_A and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
								,			5.1.5	<u> </u>	
50	Hardware	NO	OFF	Automatic	LXP	9 hrs	Pin 1 Br	rown 24 VDC	24 VDC	Low Range			
							Pin 2 Bl	ue 0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 W	hite OSSD1	SEL_A	Pin 2	White	Range 0	24 VDC
							Pin 4 Gr	reen OSSD2	EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pi	nk PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Ye	ellow SEL_A	OSSD1	Pin 5	Gray	PE	GROUND
							Pin 7	ack MUT_ENABLE	STATUS and SEL_B	High Range			
							Pin 8 Gr	ray EDM	OSSD2	Pin 1	Brown	24 VDC	24 VDC
							Pin 9		Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	urple OVERRIDE1/RESTART		Pin 3	Blue	0 VDC	0 VDC
								ray/Pink SEL_B	STATUS and MUTING_ENABLE	Pin 4	Black	Range 1	24 VDC
								ed/Blue STATUS	SEL_B and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
							_	·					
\Box													
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 1 Br	rown 24 VDC	24 VDC	Low Range			
51	Hardware	NO	OFF	Automatic	TX	30 sec		rown 24 VDC lue 0 VDC	24 VDC 0 VDC	Low Range Pin 1	Brown	24 VDC	24 VDC
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 2 Bl			-		24 VDC Range 0	24 VDC 24 VDC
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 2 Bl Pin 3 W	lue 0 VDC	0 VDC	Pin 1	Brown		
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 2 Bl Pin 3 W Pin 4 Gr	lue 0 VDC lhite OSSD1	0 VDC OSSD1 output	Pin 1 Pin 2	Brown White	Range 0	24 VDC
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 2 Bl Pin 3 W Pin 4 Gr Pin 5 Pi	lue 0 VDC lhite OSSD1 reen OSSD2	0 VDC OSSD1 output EDM	Pin 1 Pin 2 Pin 3	Brown White Blue	Range 0 0 VDC	24 VDC 0 VDC
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 2 Pin 3 W Pin 4 Gr Pin 5 Pin 6 Ye	lue 0 VDC l'hite OSSD1 reen OSSD2 nk PE	0 VDC OSSD1 output EDM GROUND	Pin 1 Pin 2 Pin 3 Pin 4	Brown White Blue Black Gray	Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 2 Pin 3 W Pin 4 Gr Pin 5 Pin 6 Ve Pin 7 Bl	lue 0 VDC 'hite OSSD1 reen OSSD2 nk PE ellow SEL_A	0 VDC OSSD1 output EDM GROUND 24 VDC	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray	Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 2 Bl Pin 3 W Pin 4 Gr Pin 5 Pin Pin 6 Ye Pin 7 Bl Pin 8 Gr	lue 0 VDC Thite OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray	Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC GROUND
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 2 Pin 3 W Pin 4 Gr Pin 5 Pin 6 Pin 6 Pin 7 Pin 8 Gr Pin 9 Re	lue 0 VDC Thite OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown	Range 0 0 VDC Range 1 PE 24 VDC	24 VDC 0 VDC 0 VDC GROUND 24 VDC
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Pu	tue 0 VDC Thite OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White	Range 0 0 VDC Range 1 PE 24 VDC Range 0	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC
51	Hardware	NO	OFF	Automatic	TX	30 sec	Pin 2 Pin 3 W Pin 4 Gr Pin 5 Pin 6 Pin 6 Pin 7 Pin 8 Gr Pin 9 Pin 10 Pin 11 Gr	lue 0 VDC white OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2 urple OVERRIDE1/RESTART	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3	Brown White Blue Black Gray Brown White Blue	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC
							Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Re	lue 0 VDC White OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2 Jurple OVERRIDE1/RESTART ray/Pink SEL_B ed/Blue STATUS	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC 24 VDC
51	Hardware	NO	OFF	Automatic	TX	30 sec 9 hrs	Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Re	lue 0 VDC white OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM od OVERRIDE2 urple OVERRIDE1/RESTART ray/Pink SEL_B ed/Blue STATUS	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND
							Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Re Pin 1 Br Pin 2 Bl	lue 0 VDC White OSSD1 reen OSSD2 nk PE ellow SEL_A ack MUT_ENABLE ray EDM oVERRIDE2 urple OVERRIDE1/RESTART ray/Pink SEL_B ed/Blue STATUS	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE 24 VDC 0 VDC	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range	Brown White Blue Black Gray Brown White Blue Black Gray Brown Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND
							Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 2 Pin 3 W	lue 0 VDC white OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2 urple OVERRIDE1/RESTART ray/Pink SEL_B ed/Blue STATUS rown 24 VDC ure 0 VDC white OSSD1	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE 24 VDC 0 VDC OSSD1 output	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Black Gray Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 Range 0	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 24 VDC
							Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Gr	lue 0 VDC Thite OSSD1 reen OSSD2 nk PE ellow SEL_A Jack MUT_ENABLE ray EDM ed OVERRIDE2 Jurple OVERRIDE1/RESTART ray/Pink SEL_B sTATUS Town 24 VDC Jule 0 VDC Thite OSSD1 reen OSSD2	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Blue Blue Blue Blue Blue Blue Blue Blue	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC
							Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 2 Pin 2 Pin 3 W Pin 4 Pin 5 Pin 5 Pin 6 Pin 7 Pin 10 Pin 11 Pin 12 Pin 10 Pin 11 Pin 12 Pin 11 Pin 12 Pin 1	lue 0 VDC Thite OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2 Jurple OVERRIDE1/RESTART ray/Pink SEL_B ed/Blue STATUS Town 24 VDC lue 0 VDC Thite OSSD1 reen OSSD2 nk PE	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM GROUND	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Blown White Blue Black	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 0 VDC Range 0	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC 0 VDC
							Pin 2 Pin 3 W Pin 4 Fin 5 Pin 6 Pin 7 Pin 8 Fin 9 Pin 10 Pin 11 Fin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 7 Pin 9 Pin 10 Pin 10 Pin 11 Pin 10 Pin	lue 0 VDC white OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM overRIDE2 urple OVERRIDE1/RESTART ray/Pink SEL_B ed/Blue STATUS rown 24 VDC lue 0 VDC white OSSD1 reen OSSD2 nk PE ellow SEL_A	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM GROUND STATUS and MUTING_ENABLE	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC
							Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 5 Pin 6 Pin 7 Pin 6 Pin 7 Pin 6 Pin 7 Bl	lue 0 VDC white OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM overRIDE2 urple OVERRIDE1/RESTART ray/Pink SEL_B ed/Blue STATUS rown 24 VDC lue 0 VDC white OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM GROUND STATUS and MUTING_ENABLE STATUS and SEL_A	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 1 PE	24 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC 0 VDC 0 VDC
							Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 5 Pin 6 Pin 7 Pin 6 Pin 7 Pin 6 Pin 7 Pin 8 Gr	lue 0 VDC white OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM overRIDE2 urple OVERRIDE1/RESTART ray/Pink SEL_B ed/Blue STATUS rown 24 VDC lue 0 VDC white OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM GROUND STATUS and MUTING_ENABLE STATUS and MUTING_ENABLE STATUS and SEL_A OSSD2	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Blue Black Gray Brown White Blue Black Blue Black Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 1 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC	24 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC GROUND 24 VDC 0 VDC 0 VDC 24 VDC 0 VDC GROUND
							Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 3 Pin 4 Pin 5 Pin 6 Pin 5 Pin 6 Pin 7 Pin 8 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Pin 10 Pin 11 Pin 12 Pin 10 Pin 11 Pin 12 Pin 10 Pin 11 Pin 10	lue 0 VDC I/hite OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2 urple OVERRIDE1/RESTART ray/Pink SEL_B status rown 24 VDC lue 0 VDC I/hite OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM GROUND STATUS and MUTING_ENABLE STATUS and MUTING_ENABLE STATUS and SEL_A OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Block Gray Brown White Blue Block Gray Brown White	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1	24 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC GROUND 24 VDC 0 VDC
							Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 10 Pin 11 Pin 12 Pin 10 Pi	lue 0 VDC Thite OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2 Urple OVERRIDE1/RESTART ray/Pink SEL_B ed/Blue STATUS TOWN 24 VDC lue 0 VDC Thite OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2 OVERRIDE2 OVERRIDE3 OVERRIDE3 OVERRIDE3 OVERRIDE2 Urple OVERRIDE2 Urple OVERRIDE2 Urple OVERRIDE2 Urple OVERRIDE2	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM GROUND STATUS and MUTING_ENABLE STATUS and MUTING_ENABLE STATUS and SEL_A OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Blue Blue Blue Blue Blue Blue Blu	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE	24 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC GROUND 24 VDC 0 VDC
							Pin 2 Pin 3 W Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Gr Pin 9 Pin 10 Pin 10 Pin 11 Pin 10 Pin 11 Pin 10 Pin 10 Pin 11	lue 0 VDC I/hite OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2 urple OVERRIDE1/RESTART ray/Pink SEL_B status rown 24 VDC lue 0 VDC I/hite OSSD1 reen OSSD2 nk PE ellow SEL_A lack MUT_ENABLE ray EDM ed OVERRIDE2	0 VDC OSSD1 output EDM GROUND 24 VDC STATUS and SEL_B OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) STATUS and MUTING_ENABLE SEL_B and MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM GROUND STATUS and MUTING_ENABLE STATUS and MUTING_ENABLE STATUS and SEL_A OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Block Gray Brown White Blue Block Gray Brown White	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1	24 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC GROUND 24 VDC 0 VDC



Ī	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Activ	e Element	İ	Connect to		Emitte	r (excl. TRX)	
53	Hardware	NO	OFF	Automatic	TP C	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Range	<u> </u>		
	ria aware	.,,	0.1	racomatic	0	30 300		Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
								White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							_	Green	OSSD2	SEL B and EDM	Pin 3	Blue	0 VDC	0 VDC
								Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
								Yellow	SEL_A	STATUS and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
								Black	MUT ENABLE	STATUS and SEL_A	High Range			
							_	Gray	EDM	OSSD2 and SEL B	Pin 1	Brown	24 VDC	24 VDC
								Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	SEL_B	OSSD2 and EDM	Pin 4	Black	Range 1	24 VDC
							_	Red/Blue		SEL_A and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
54	Hardware	NO	OFF	Automatic	TP C	9 hrs	Pin 1	Brown	24 VDC	24 VDC	Low Range	:		
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	SEL_A and EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD2 and EDM	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	STATUS and SEL_B	High Range	e		
							Pin 8	Gray	EDM	OSSD2 and SEL_A	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	SEL_B	STATUS and MUTING _ENABLE	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue	STATUS	SEL B and MUTING _ENABLE	Pin 5	Gray	PE	GROUND
		110	055		TD C	20								
55	Hardware	NO	OFF	Automatic	TP S	30 sec		Brown	24 VDC	24 VDC	Low Range			
								Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
								White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
								Green	OSSD2	EDM	Pin 3	Blue	0 VDC	0 VDC
								Pink	PE CEL A	GROUND	Pin 4	Black	Range 1	0 VDC
							_	Yellow	SEL_A	24 VDC	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE EDM	STATUS OSSD2	High Range		24 VDC	24 VDC
								Gray			Pin 1	Brown		
								Red Purple	OVERRIDE2 OVERRIDE1/RESTART	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 2 Pin 3	White Blue	Range 0 0 VDC	0 VDC 0 VDC
								Gray/Pink	,	24 VDC	Pin 3 Pin 4	Black	Range 1	24 VDC
								Red/Blue		MUTING_ENABLE	Pin 5	Gray	PE PE	GROUND
LLI I							FIII 12	Red/Blue	SIAIOS	MOTING_ENABLE	FIII 3	uray	FL	GROUND
56	Hardware	NO	OFF	Automatic	TP S	Infinite	Pin 1	Brown	24 VDC	24 VDC	Low Range	<u> </u>		
		_						Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
								White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
								Green	OSSD2	EDM	Pin 3	Blue	0 VDC	0 VDC
								Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	SEL_B and STATUS and MUTING_ENABLE	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	SEL_A and SEL_B and STATUS	High Range			
1 1 1							Pin 8	Gray	EDM	OSSD2	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
								Red Purple	OVERRIDE2 OVERRIDE1/RESTART	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC)	Pin 2 Pin 3	White Blue	Range 0 0 VDC	0 VDC 0 VDC
							Pin 10		OVERRIDE1/RESTART	,			_	

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Activ	ve Element	:	Connect to		Emitte	r (excl. TRX)	
57	Hardware	NO	OFF	Manual	LXP	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Range			1
31	Haluwale	NO	OFF	ivialiuai	LAP	30 360		Blue	0 VDC	0 VDC	Pin 1		24 VDC	24 VDC
												Brown		
							_	White	OSSD1	SEL_A	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	EDM	Pin 3	Blue	0 VDC	0 VDC
								Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD1	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	STATUS	High Range			
							Pin 8	Gray	EDM	OSSD2	Pin 1	Brown	24 VDC	24 VDC
								Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							_	Gray/Pink	_	24 VDC	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue	STATUS	MUTING_ENABLE	Pin 5	Gray	PE	GROUND
		110	055		11/2	2.1		_						
58	Hardware	NO	OFF	Manual	LXP	9 hrs	Pin 1	Brown	24 VDC	24 VDC	Low Range			
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							_	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	SEL_A and EDM	Pin 3	Blue	0 VDC	0 VDC
								Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD2 and EDM	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	STATUS	High Range	·		
							Pin 8	Gгау	EDM	OSSD2 and SEL_A	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	SEL_B	24 VDC	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue	STATUS	MUTING_ENABLE	Pin 5	Gгау	PE	GROUND
59	Hardware	NO	OFF	Manual	TX	30 sec	Pin 1	Brown	24 VDC	24 VDC	Low Range	_		
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	SEL_B	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	SEL_A and EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD2 and EDM	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	STATUS	High Range	·		
							Pin 8	Gray	EDM	OSSD2 and SEL_A	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink	SEL_B	OSSD1	Pin 4	Black	Range 1	24 VDC
							Pin 12	Red/Blue	STATUS	MUTING_ENABLE	Pin 5	Gray	PE	GROUND
_														
60	Hardware	NO	OFF	Manual	TX	9 hrs	Pin 1	Brown	24 VDC	24 VDC	Low Range	_		
							Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3	White	OSSD1	SEL_A	Pin 2	White	Range 0	24 VDC
							Pin 4	Green	OSSD2	SEL_B and EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6	Yellow	SEL_A	OSSD1	Pin 5	Gray	PE	GROUND
							Pin 7	Black	MUT_ENABLE	STATUS	High Range			
							Pin 8	Gгау	EDM	OSSD2 and SEL_B	Pin 1	Brown	24 VDC	24 VDC
							Pin 9	Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11	Gray/Pink		OSSD2 and EDM	Pin 4	Black	Range 1	24 VDC
								Red/Blue		MUTING_ENABLE	Pin 5	Gгау	PE	GROUND
ш										-				

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	Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver/Active Elem	ient	Connect to		Emitte	r (excl. TRX)	
<u>(1</u>	Hardware	NO	OFF	Manual	TP C	30 sec	Pin 1 Brown	24 VDC	24 VDC	Low Range			
61	Haluwale	NO	OFF	ivialiuai	IFC	30 sec	Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC 24 VDC
							Pin 4 Green	OSSD2	SEL_A and SEL_B and EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yellow		OSSD2 and EDM and SEL B	Pin 5	Gray	PE PE	GROUND
							Pin 7 Black	MUT ENABLE	STATUS	High Range		1 L	dicond
							Pin 8 Gray	EDM	OSSD2 and SEL A and SEL B	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Purple		Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
								ink SEL_B	OSSD2 and SEL_A and EDM	Pin 4	Black	Range 1	24 VDC
								ue STATUS	MUTING ENABLE	Pin 5	Gray	PE PE	GROUND
							TIIT IZ	de SIATOS	MOTING_ENABLE	11113	didy	1.5	GNOOND
62	Hardware	NO	OFF	Manual	TP C	9 hrs	Pin 1 Brown	24 VDC	24 VDC	Low Range			
							Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
							Pin 3 White	OSSD1	SEL_A and SEL_B	Pin 2	White	Range 0	24 VDC
							Pin 4 Green	OSSD2	EDM	Pin 3	Blue	0 VDC	0 VDC
							Pin 5 Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
							Pin 6 Yellow	SEL_A	OSSD1 and SEL B	Pin 5	Gray	PE	GROUND
							Pin 7 Black	MUT_ENABLE	STATUS	High Range			
							Pin 8 Gray	EDM	OSSD2	Pin 1	Brown	24 VDC	24 VDC
							Pin 9 Red	OVERRIDE2	Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 2	White	Range 0	0 VDC
							Pin 10 Purple	OVERRIDE1/RESTART	Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 3	Blue	0 VDC	0 VDC
							Pin 11 Gray/P	ink SEL_B	OSSD1 and SEL_A	Pin 4	Black	Range 1	24 VDC
								ue STATUS	MUTING_ENABLE	Pin 5	Gray	PE	GROUND
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 1 Brown	24 VDC	24 VDC	Low Range	·		
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 1 Brown Pin 2 Blue	24 VDC 0 VDC	24 VDC 0 VDC	Low Range Pin 1	Brown	24 VDC	24 VDC
63	Hardware	NO	OFF	Manual	TP S	30 sec				_		24 VDC Range 0	24 VDC 24 VDC
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 2 Blue	0 VDC	0 VDC	Pin 1	Brown		
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 2 Blue Pin 3 White	0 VDC OSSD1	0 VDC SEL_B	Pin 1 Pin 2	Brown White	Range 0	24 VDC
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 2 Blue Pin 3 White Pin 4 Green	0 VDC OSSD1 OSSD2 PE	0 VDC SEL_B EDM	Pin 1 Pin 2 Pin 3	Brown White Blue	Range 0 0 VDC	24 VDC 0 VDC
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink	0 VDC OSSD1 OSSD2 PE	0 VDC SEL_B EDM GROUND 24 VDC STATUS	Pin 1 Pin 2 Pin 3 Pin 4	Brown White Blue Black Gray	Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink Pin 6 Yellow	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray	Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	Brown White Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3	Brown White Blue Black Gray Brown White Blue	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Pin 11 Gray/P	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White	Range 0 0 VDC Range 1 PE 24 VDC Range 0	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC 24 VDC
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Pin 11 Gray/P	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3	Brown White Blue Black Gray Brown White Blue	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC
							Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Blue White Green Pink Yellow Pare Pink Yellow Pin 7 Black Gray Red Purple Pin 10 Red/Bl	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B ue STATUS	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC 24 VDC
63	Hardware	NO	OFF	Manual	TP S	30 sec	Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple Pin 11 Gray/P Pin 12 Red/Bl	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B ue STATUS	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND
							Pin 2 Blue Pin 3 White Pin 4 Green Pin 5 Pink Pin 6 Yellow Pin 7 Black Pin 8 Gray Pin 9 Red Pin 10 Purple Pin 11 Gray/P Pin 12 Red/Bl Pin 1 Brown Pin 2 Blue	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B ue STATUS	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range	Brown White Blue Black Gray Brown White Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND
							Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 White Blue Pin 3 White	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B STATUS 24 VDC 0 VDC OSSD1	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2	Brown White Blue Black Gray Brown White Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 Range 0	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 24 VDC
							Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 12 Pin 3 Pin 2 Pin 3 Pin 4 Pin 3 Pin 4 Pin 4 Green	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B status 24 VDC 0 VDC OSSD1 OSSD2	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM and SEL_B	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Blue Black Blue Black Blue Black Blue Blue Blue Blue Blue Blue Blue	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC
							Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 3 Pin 4 Pin 5 Pin 6 Pin 16 Pin 17 Pin 17 Pin 18 Pin 19 Pin 19 Pin 10 Pin 10 Pin 10 Pin 10 Pin 11 Pin 10 Pin 1	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B ue STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM and SEL_B GROUND	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Blown White Blue Black	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 0 VDC Range 0	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC 0 VDC
							Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 4 Pin 5 Pin 6 Pin 6 Pin 6 Pin 7 Red/Bl	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B ue STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM and SEL_B GROUND 24 VDC	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC	24 VDC 0 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC
							Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 4 Pin 6 Pin 6 Pin 7 Pin 1 Pin 3 Pin 4 Pin 5 Pin 4 Pin 5 Pin 6 Pin 7 Pin 6 Pin 7 Pin 6 Pin 7	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B ue STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM and SEL_B GROUND 24 VDC STATUS	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 1 PE	24 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC 24 VDC 0 VDC 0 VDC 0 VDC
							Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 6 Pin 6 Pin 7 Pin 1 Pin 3 Pin 4 Pin 6 Pin 6 Pin 7 Pin 8 Pin 8 Pin 8 Pin 6 Pin 7 Pin 8 Pin 7 Pin 8 Pin 9 Pi	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM and SEL_B GROUND 24 VDC STATUS OSSD2 and SEL_B	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Blue Black Blue Black Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 0 1 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC	24 VDC 0 VDC GROUND 24 VDC 0 VDC 0 VDC 24 VDC GROUND 24 VDC GROUND 24 VDC 0 VDC 0 VDC 24 VDC 0 VDC GROUND
							Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 3 Pin 4 Pin 3 Pin 4 Pin 5 Pin 6 Pin 6 Pin 7 Pin 8 Pin 9 Red/Bl Pin 10 Pin 10 Pin 11 Pin 12 Red/Bl Pin 10 Pin 10 Pin 11 Pin 10 Pin 1	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM and SEL_B GROUND 24 VDC STATUS OSSD2 and SEL_B Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Blue Black Gray Brown White Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1	24 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC GROUND 24 VDC 0 VDC GROUND
							Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 12 Pin 3 Pin 4 Pin 5 Pin 4 Pin 5 Pin 6 Pin 6 Pin 7 Pin 1 Pin 3 Pin 4 Pin 5 Pin 6 Pin 5 Pin 6 Pin 6 Pin 7 Pin 6 Pin 7 Pin 8 Pin 9 Pin 9 Pin 10 Purple	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE2 OVERRIDE3/RESTART	O VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC O VDC OSSD1 output EDM and SEL_B GROUND 24 VDC STATUS OSSD2 and SEL_B Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Blue Blue Blue Blue Blue Blue Blu	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE	24 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC 24 VDC GROUND 24 VDC 0 VDC
							Pin 2 Pin 3 White Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 12 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 10 Pin 11 Pin 1 Pin 1 Pin 1 Pin 1 Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 5 Pin 6 Pin 6 Pin 7 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10 Pin 11 Pin 10 Pin 10 Pin 11 Pin 11 Pin 11 Pin 10 Pin 11 Pin 11 Pin 11 Pin 11 Pin 10 Pin 11 Pin	0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2 OVERRIDE1/RESTART ink SEL_B STATUS 24 VDC 0 VDC OSSD1 OSSD2 PE SEL_A MUT_ENABLE EDM OVERRIDE2	0 VDC SEL_B EDM GROUND 24 VDC STATUS OSSD2 Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC) Connect to Override command (N.O., 24 VDC) and to Restart (24 VDC) OSSD1 MUTING_ENABLE 24 VDC 0 VDC OSSD1 output EDM and SEL_B GROUND 24 VDC STATUS OSSD2 and SEL_B Connect to Override command (N.O.: HOLD TO RUN, N.C.: PULSE, 24 VDC)	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Low Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 High Range	Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Black Gray Brown White Blue Blue Black Gray Brown White Blue Black Gray	Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 0 0 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1 PE 24 VDC Range 1	24 VDC 0 VDC GROUND 24 VDC 0 VDC 24 VDC GROUND 24 VDC GROUND 24 VDC 0 VDC GROUND



Configuration	EDM	Muting Enable	Restart	Muting	Timeout	Receiver	/Active Elemen	t	Connect to		Emitte	r (excl. TRX)	
Software		All parameters	selected via th	e SCS software		Pin 1	Brown	24 VDC	24 VDC	Low Range			
						Pin 2	Blue	0 VDC	0 VDC	Pin 1	Brown	24 VDC	24 VDC
						Pin 3	White	OSSD1	OSSD1 output	Pin 2	White	Range 0	24 VDC
						Pin 4	Green	OSSD2	OSSD2 output	Pin 3	Blue	0 VDC	0 VDC
						Pin 5	Pink	PE	GROUND	Pin 4	Black	Range 1	0 VDC
						Pin 6	Yellow	SEL_A	0 VDC or Connect to External Partial Muting A Signal (Rising Edge)	Pin 5	Gray	PE	GROUND
						Pin 7	Black	MUT_ENABLE	0 VDC or Connect to External Muting Enable Signal (Rising Edge)	High Range			
						Pin 8	Gray	EDM	0 VDC or Connect to the series of N.C. contacts (connected to 24 VDC)	Pin 1	Brown	24 VDC	24 VDC
						Pin 9	Red	OVERRIDE2	Connect to Override command	Pin 2	White	Range 0	0 VDC
						Pin 10	Purple	OVERRIDE1/RESTART	Connect to Override1_Restart command	Pin 3	Blue	0 VDC	0 VDC
						Pin 11	Gray/Pink	SEL_B	0 VDC or Connect to External Partial Muting B Signal (Rising Edge)	Pin 4	Black	Range 1	24 VDC
						Pin 12	Red/Blue	STATUS	-	Pin 5	Grav	PE	GROUND