

Blue misses nothing.

The next generation of object detection

FT 25-BH with adjustable background suppression





BlueLight sensors for every application

From the F 10, F 25, F 50 and F 55 series





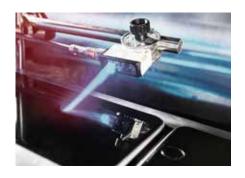
Developed specifically for difficult-to-detect objects, BlueLight sensors are true do it all sensors.

The **BlueLight series** offers much greater detection efficiency than standard optical sensors in challenging applications – whether with extremely shiny, strongly light-absorbing or highly transparent objects.

BlueLight – Product overv	iew		
Туре	Adjustment	Scanning distance	Hysteresis
FT 10-BF2 / BF3	Fixed focus	2 to 30 mm // 2 to 50 mm	< 0.5%
FT 25-BF2	Fixed focus	0 to 80 mm	< 1%
FT 25-BH NEW	Adjustable, IO-Link	0 to 200 mm	< 2%
FT 50 BH	Adjustable (potentiometer)	2 to 300 mm	< 1%
FT 55-BH	Adjustable (potentiometer)	3 to 1200 mm	< 10%









Industry Application Examples

Automotive

• Detection of metallic and highly light-absorbing components

Packaging

• Detection of transparent films / containers / bottles and labels

Pharmaceutical

• Presence and positioning of shiny blister packs

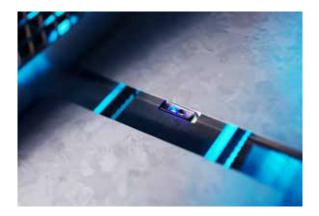
Solar

• Detection of presence and position of wafers









Blue light makes black visible.

Sensors with blue light

Transparent, shiny and deep black parts present enormous challenges for proximity sensors. Sufficient process stability cannot always be achieved during detection, in which case optical sensors ultimately have to be replaced by other sensor principles (photoelectric sensors, ultrasonic sensors etc.).

Optical blue light sensors represent a cost-efficient alternative to such complex solutions, and offer much greater process stability than conventional red light proximity sensors in many critical applications.

The sensor achieves very high process stability thanks to its instantaneous response, regardless of the shape, colour or structure of the object to be detected.

Some applications can even involve a combination of several critical factors, e.g. black objects with a high gloss surface and a wide detection angle.

Even when faced with such multiple challenges, blue light sensors have repeatedly proven their worth.

Thanks to SensoPart's innovative receiver technology and a high-precision optical concept, BlueLight sensors demonstrate excellent sensor characteristics. Combined with significantly higher process stability, this opens up a whole new range of possibilities in the detection of 'difficult' objects.







They are small, black and are rapidly multiplying: the number of dark to deep black plastic parts is constantly growing throughout all sectors.

BlueLight sensors are now successfully used in a wide range of applications involving light-absorbing objects. For example, to detect the presence of carbon fibre components or matte black interior trim panels in the automotive industry or black, round plastic caps on a conveyor belt. BlueLight sensors also prove outstanding when detecting black or reflective metal parts.

The simple and cost-efficient blue light sensor is now the answer for these and many other applications and is also replacing the retro-reflective photoelectric sensors previously in use.



In subminiature housing Measuring just $21.1 \times 14.6 \times 8$ mm, the F 10 BlueLight is perfect for installation in confined spaces.

Overview: BlueLight.

Technical Overview

Fixed focus

FT 10-BF2 / BF3



30 mm 50 mm

FT 25-BF2



80 mm

FT 25-BH **♦**



200 mm

FT 50 BH



300 mm

FT 55-BH



1200 mm



Adjustable

0 | | | | | | |

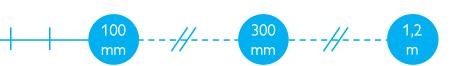


- Precise, fixed focus background suppression
- Ideal for mounting on robot grippers

- Robust detection from 0 mm
- Precisely fixed background suppression
- Reliable object detection even at very large angles of inclination
 - Optical presence detection of the latest generation
 - Optimum detection of hard-to-detect objects with excellent sensory properties
 - IO-Link interface with switching point adjustment in millimetres

- Precisely adjustable background suppression
- Simple adjustment of scanning range thanks to indicator scale

- Adjustable background suppression (potentiometer)
- Safe operation even with reflective or shiny backgrounds



FT 10-BF

BlueLight-Photoelectric diffuse sensor with background suppression, fixed focus













PRODUCT HIGHLIGHTS

- Sub-miniature sensor with BlueLight technology and precise fixed background suppression
- Reliable switching behaviour with strongly light-absorbing and transparent objects, e.g. solar wafers in every process phase
- Reliable operation without reflector even with critical surfaces
- Tamper-proof sensor design no misalignment possible
- Simple mounting and adjustment through innovative dovetail clamp mounting

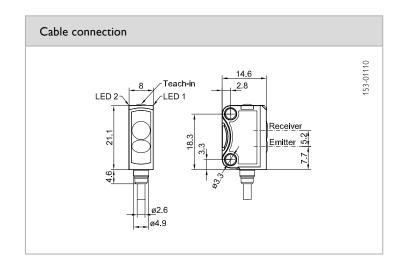
Optical data		Functions	
Scanning distance	2 30 mm ¹ / 2 50 mm ¹	Indicator LED, green	Operating voltage indicator
Optimum scanning distance	15 20 mm	Indicator LED, yellow	Switching output indicator
Used light	LED, blue, 450 nm	Adjustment possibilities	N.O. / N.C. via control input ³
LED risk group (DIN 62471)	2		
Light spot size	See diagram		
Ambient light	EN 60947-5-2		
Electrical data		Mechanical data	
Operating voltage +U _R	10 30 V DC ²	Dimensions	21,1 × 14,6 × 8 mm
No-load supply current I ₀	≤ 20 mA	Enclosure rating	IP 67⁴
Output current le	≤ 50 mA	Material, housing	PUR
Protective circuits	Reverse-polarity protection, U _B /	Material, front screen	PMMA
	short-circuit protection (Q)	Type of connection	See selection table
Protection class	2	Ambient temperature: operation	-20 +50 °C⁵
Power On Delay	< 300 ms	Ambient temperature: storage	-20 +80 °C
Switching output, Q	PNP/NPN (see selection table)	Weight (cable device)	Approx. 22 g
Output function	N.O./N.C.	Weight (pigtail)	Approx. 10 g
Switching frequency, f (ti/tp 1:1)	1000 Hz		
Response time	500 μs		
Control input, IN ³	$+U_B = N.C.$ $-U_B / Open = N.O.$		

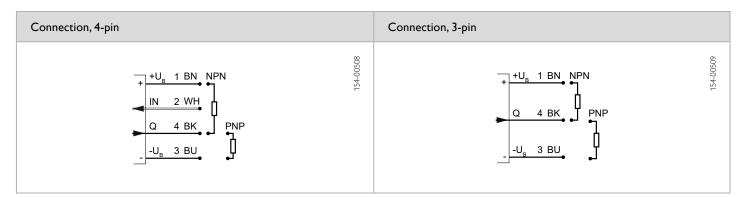
¹ Reference material white, 90 % reflectivity ² Max. residual ripple 10 %, within U_R approx. 50 Hz/100 Hz ³ Only 4-pin design ⁴ With connected IP 67 plug ⁵ UL: -20 ... +30 °C

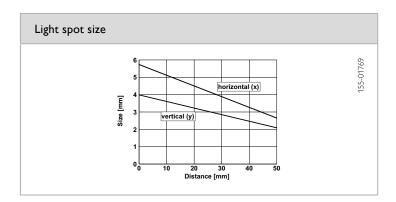
Scanning distance	Switching output	Type of connection	Part number	Article number
2 30 mm ¹	PNP	Cable, 2 m, 4-wire	FT 10-BF2-PS-K4	600-11026
2 30 mm ¹	NPN	Cable, 2 m, 4-wire	FT 10-BF2-NS-K4	600-11029
2 30 mm ¹	PNP	Pigtail, 200 mm with M8 plug, 4-pin	FT 10-BF2-PS-KM4	600-11027
2 30 mm ¹	NPN	Pigtail, 200 mm with M8 plug, 4-pin	FT 10-BF2-NS-KM4	600-11030
2 30 mm ¹	PNP	Pigtail, 200 mm with M8 plug, 3-pin	FT 10-BF2-PS-KM3	600-11028
2 30 mm ¹	NPN	Pigtail, 200 mm with M8 plug, 3-pin	FT 10-BF2-NS-KM3	600-11031
2 50 mm ¹	PNP	Cable, 2 m, 4-wire	FT 10-BF3-PS-K4	600-11036
2 50 mm ¹	NPN	Cable, 2 m, 4-wire	FT 10-BF3-NS-K4	600-11039
2 50 mm ¹	PNP	Pigtail, 200 mm with M8 plug, 4-pin	FT 10-BF3-PS-KM4	600-11037
2 50 mm ¹	NPN	Pigtail, 200 mm with M8 plug, 4-pin	FT 10-BF3-NS-KM4	600-11040
2 50 mm ¹	PNP	Pigtail, 200 mm with M8 plug, 3-pin	FT 10-BF3-PS-KM3	600-11038
2 50 mm ¹	NPN	Pigtail, 200 mm with M8 plug, 3-pin	FT 10-BF3-NS-KM3	600-11041

Including dovetail clamp mounting MBD F 10 for all types









Accessories	
Connection cables	From Page 22
Brackets	From Page 18

FT 25-BF2

BlueLight-Photoelectric diffuse sensor with background suppression, fixed focus













PRODUCT HIGHLIGHTS

- Miniature sensor with BlueLight technology and precise fixed background suppression
- Reliable switching behaviour with strongly light-absorbing and highly transparent objects
- Reliable operation without reflector even with critical surfaces
- Tamper-proof sensor design no misalignment possible
- Simple mounting and adjustment through innovative dovetail clamp mounting

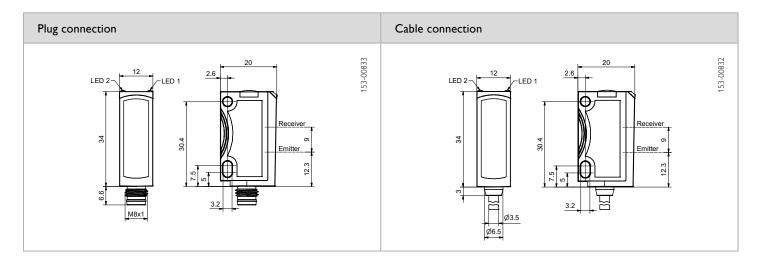
Optical data		Functions	
Scanning distance	0 80 mm ¹	Indicator LED, green	Operating voltage indicator
Background suppression from	100 mm	Indicator LED, yellow	Switching output indicator
Type of light	LED, blue, 450 nm	Adjustment possibilities	N.O./N.C. via control input
Light spot size	See diagram		
Hysteresis	~ 1%2		
Ambient light	EN 60947-5-2		
Electrical data		Mechanical data	
Operating voltage, +U _R	10 30 V DC ³	Dimensions	34 × 20 × 12 mm
No-load current, I ₀	≤ 30 mA	Enclosure rating	IP 69K & IP 67 ⁴
Output current, le	≤ 100 mA	Material, housing	ABS
Protective circuits	Reverse-polarity protection, U _B /	Material, front screen	PMMA
	short-circuit protection (Q)	Type of connection	See selection table
Protection Class	2	Ambient temperature: operation	-20 +60 °C ⁵
Power On Delay	< 300ms	Ambient temperature: storage	-20 +80 °C
Switching output, Q	PNP/NPN (see selection table)	Weight (plug device)	10 g
Output function	N.O./N.C.	Weight (cable device)	40 g
Switching frequency, f (ti/tp 1:1)	≤ 1000 Hz	Vibration and impact resistance	EN 60947-5-2
Response time	500 μs		
Control input, IN	$+U_B = N.C.$ $-U_B / Open = N.O.$		

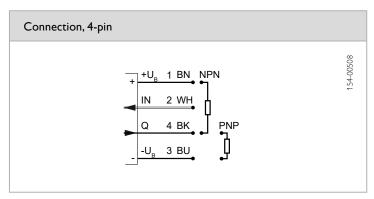
¹ Reference material: white, 90 % reflectivity ² Based on scanning distance ³ Max. 10 % ripple, within U_R; ² 50 Hz / 100 Hz ⁴ With connected IP 67 / IP 69K plug

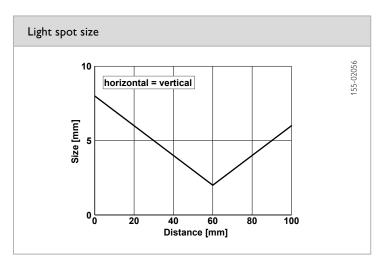
⁵ UL: -20 ... +50 °C

Scanning distance	Switching output	Type of connection	Part number	Article number
0 80 mm	PNP	Plug, M8×1, 4-pin	FT 25-BF2-PS-M4	608-11038
0 80 mm	NPN	Plug, M8x1, 4-pin	FT 25-BF2-NS-M4	608-11039
0 80 mm	PNP	Cable, 2 m, 4-wire	FT 25-BF2-PS-K4	608-11040
0 80 mm	NPN	Cable, 2 m, 4-wire	FT 25-BF2-NS-K4	608-11041









Reference material	Detection range
White (90 %)	0 80 mm
Grey (18 %)	0 80 mm
Black (6 %)	1 80 mm

Accessories	
Connection cables	From Page 22
Brackets	From Page 19

FT 25-BH

BlueLight-Photoelectric diffuse sensor with background suppression









ECOLAB IO-Link



PRODUCT HIGHLIGHTS

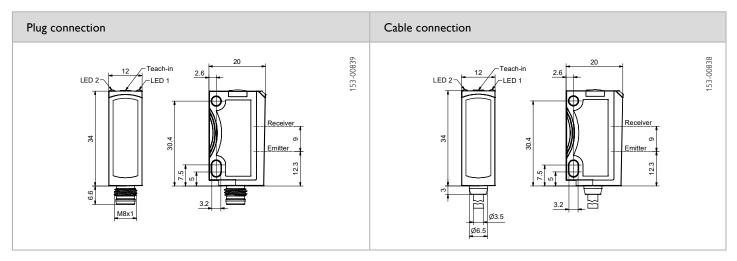
- Miniature sensor with BlueLight technology and precisely adjustable background suppression
- Reliable switching with strongly light absorbing and shiny objects
- Reliable operation even with highly reflective backgrounds thanks to SensoPart ASIC technology
- Simple alignment thanks to easily visible light spot
- Sensor setting via teach-in, control input and IO-Link
- Robust glass-fibre-reinforced plastic housings

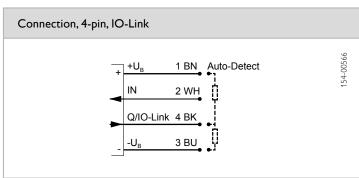
Optical data		Functions	
Scanning distance	0 200 mm ¹	Indicator LED, green	Operating voltage indicator
Adjustment range	10 200 mm ¹	Indicator LED, yellow	Switching output indicator
Type of light Light spot size	LED, blue, 450 nm	Scanning distance adjustment	Via Teach-in button, control input ³ and IO-Link
Eight spot size	7 11111 X 7 111111	Teach-in modes	Mode 1: during running process Mode 2: during standing process
		Adjustment possibilities	N.O./N.C. and Auto-Detect / NPN / PNP via teach-in button, control inpu and IO-Link Button lock via control input ³ and IO-Link Wide variety of adjustment possibiliti via IO-Link
		Default settings	Max. scanning distance and N.O.
Electrical data		Mechanical data	
Operating voltage, +U _R	10 30 V DC ²	Dimensions	34 × 20 × 12 mm
No-load current, I _o	≤ 30 mA	Enclosure rating	IP 69 & IP 67 ⁵
Output current, le	≤ 100 mA	Material, housing	ABS
Protective circuits	Reverse-polarity protection, U _R /	Material, front screen	PMMA
	short-circuit protection (Q)	Type of connection	See selection table
Protection Class	2	Ambient temperature: operation	-20 +60 °C ⁶
Power On Delay	< 300 ms	Ambient temperature: storage	-20 +80 °C
Switching output, Q	1x Auto-Detect (PNP/NPN) ⁴	Weight (plug device)	10 g
Output function	N.O./N.C.	Weight (metal plug device ⁷)	10 g
Switching frequency, f (ti/tp 1:1)	≤ 700 Hz	Weight (cable device)	40 g
Response time	500 μs	Weight (pigtail)	20 g
Control input, IN ³	+U _B = teach-in -U _B = button locked Open = normal operation	Vibration and impact resistance	EN 60947-5-2
IO-Link	1		
Communication mode	COM 2		
Min. cycletime	2.3 ms		
SIO mode	Compatible		
Length process data	16 Bit		
Specification	1.1		

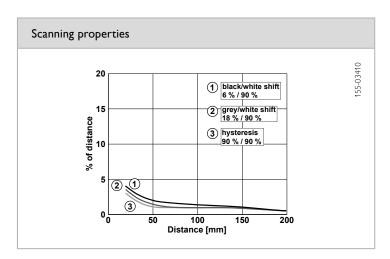
Reference material: white, 90 % reflectivity 2 Max. 10 % ripple, within UB, ~50 Hz / 100 Hz 3 Only 4-pin design 4 Auto-Detect, automatic PNP/NPN selection by the sensor; PNP or ⁵With connected IP 67 / IP 69 plug ⁶ UL: -20 ... +50 °C ⁷ No Ecolab



Scanning distance	Switching output	Type of connection	Part number	Article number
0 200 mm	Auto-Detect	Metal plug, M8×1, 4-pin, IO-Link �	FT 25-BH-PNSL-M4M	608-11063
0 200 mm	Auto-Detect	Plug, M8x1, 4-pin, IO-Link �	FT 25-BH-PNSL-M4	608-11064
0 200 mm	Auto-Detect	Pigtail, 150 mm with plug, M8, 4-pin, IO-Link �	FT 25-BH-PNSL-KM4	608-11065







Reference material	Detection range	Accessories	
White (90 %)	0 200 mm	Connection cables	From Page 22 From Page 19
Grey (18 %) Black (6 %)	0 200 mm 2 200 mm	Brackets	From Page 19

FT 50 BH

BlueLight-Photoelectric diffuse sensor with background suppression











PRODUCT HIGHLIGHTS

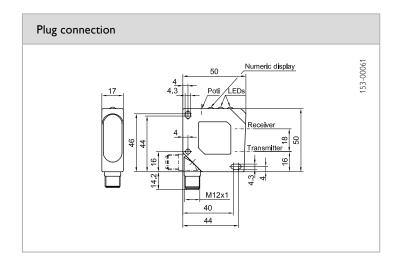
- Precisely adjustable background suppression
- Simple scanning distance adjustment thanks to indicator scale
- Plug connector rotatable

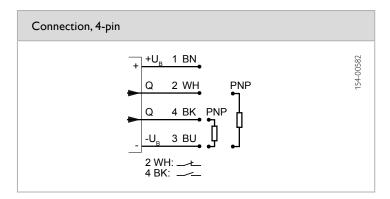
Optical data		Functions	
Scanning distance	40 300 mm ¹	Indicator LED, green	Operating voltage indicator
Type of light	LED, blue, 450 nm	Indicator LED, yellow	Switching output indicator
Light spot size ²	5 x 5 mm ²	Indicator LED, red	Contamination indicator
		Scanning distance adjustment	Via potentiometer
Electrical data		Mechanical data	
Operating voltage, +U _B	10 30 V DC ³	Dimensions	50 × 50 × 17 mm
No-load current, In	≤ 35 mA ⁴	Enclosure rating	IP 67 ⁵
Output current, le	≤ 200 mA	Material, housing	ABS
Protective circuits	Reverse-polarity protection, U _B /	Material, front screen	PMMA
	short-circuit protection (Q)	Type of connection	See selection table
Protection Class	2	Ambient temperature: operation	-20 +60 °C
Power On Delay	≤ 300 ms	Ambient temperature: storage	-20 +80 °C
Switching output, Q	PNP/NPN, antivalent (see selection table)	Weight (plug device)	40 g
Output function	N.O./N.C. (see selection table)	Weight (cable device)	130 g
Switching frequency, f (ti/tp 1:1)	≤ 1000 Hz	Vibration and impact resistance	EN 60947-5-2
Response time	500 μs		
Connection, BK	N.O.		
Connection,WH	N.C.		
Contamination output, WH (optional)	N.O. (see selection table)		

¹ Reference material: grey, 18 % reflectivity ² At scanning distance of 200 mm ³ Max, 10 % ripple, within U₈ ⁴ At 24V DC ⁵ With connected IP 67 plug

Scanning distance	Switching output	Type of connection	Part number	Article number
40 300 mm	PNP, antivalent	Plug, M12x1, 4-pin	FT 50 BH-PAL4	572-51070







Accessories		
Connection cables	From Page 23	
Brackets	From Page 21	

FT 55-BH

BlueLight-Photoelectric diffuse sensor with background suppression













PRODUCT HIGHLIGHTS

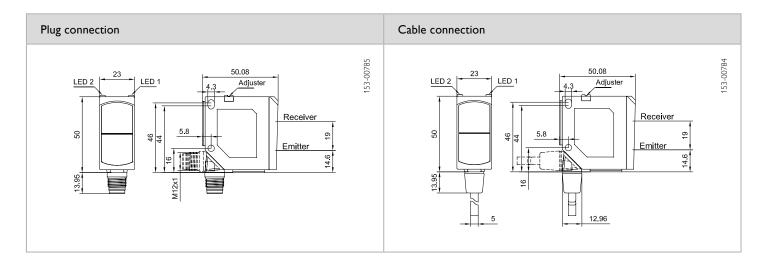
- Long scanning distance of 1.2 m
- BlueLight technology with precisely adjustable background suppression reliable operation even with highly reflective and glossy backgrounds
- Precise scanning distance adjustment by means of potentiometer
- Reliable detection of highly transparent or strongly lightabsorbing objects
- Reliable detection even with angles of up to 90°

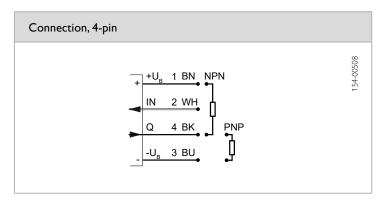
Optical data		Functions	
Scanning distance	3 1200 mm ¹	Indicator LED, green	Operating voltage indicator
Type of light	LED, blue, 450 nm	Indicator LED, yellow	Switching output indicator /
Light spot size	See diagram		contamination indicator
Ambient light	EN 60947-5-2	Scanning distance adjustment	Via potentiometer
		Adjustment possibilities	N.O./N.C. via control input
		Default settings	$S_n = 500 \text{ mm } (6 \%)$
Electrical data		Mechanical data	
Operating voltage, +U _B	10 30 V DC ²	Dimensions	50 × 50.1 × 23 mm
No-load current, I ₀	≤ 30 mA	Enclosure rating	IP 69K & IP 67 ³
Output current, le	≤ 100 mA	Material, housing	PC-ABS
Protective circuits	Reverse-polarity protection, U _R /	Material, front screen	PMMA
	short-circuit protection (Q)	Type of connection	See selection table
Protection Class	2	Ambient temperature: operation	-20 +60 °C ⁴
Power On Delay	< 300 ms	Ambient temperature: storage	-20 +80 °C
Switching output, Q	PNP/NPN (see selection table)	Weight (plug device)	35 g
Output function	N.O./N.C.	Weight (cable device)	125 g
Switching frequency, f (ti/tp 1:1)	≤ 600 Hz	Vibration and impact resistance	EN 60947-5-2
Response time	830 µs		
Control input, IN	$+U_B = N.C.$ $-U_B / Open = N.O.$		

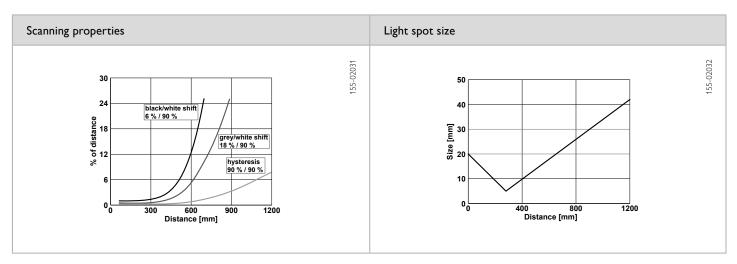
¹ Reference material: white, 90 % reflectivity ² Max. 10 % ripple, within U_g, ~50 Hz / 100 Hz ³ With connected IP 67 / IP 69K plug ⁴ UL: max. +45 °C

Scanning distance	Switching output	Type of connection	Part number	Article number
3 1200 mm	PNP	Plug, M12x1, 4-pin	FT 55-BH-PS-L4	623-11036
3 1200 mm	NPN	Plug, M12×1, 4-pin	FT 55-BH-NS-L4	623-11037
3 1200 mm	PNP	Plug, M12×1, 4-pin	FT 55-BH2-PS-L4	623-11041
3 1200 mm	NPN	Plug, M12x1, 4-pin	FT 55-BH2-NS-L4	623-11042









Reference material	Detection range
White (90 %)	3 1200 mm
Grey (18 %)	5 750 mm
Black (6 %)	10 600 mm

Accessories	
Connection cables	From Page 23
Brackets	From Page 21

Accessories

Brackets



• Brackets

Brackets for FT 10 series			
CD CONCIDENTS THE WAY OF THE PROPERTY OF THE	8.2 9.0 9.5	Part number / Article number Description Suitable for	MBD F 10 / 660-01001 Dovetail clamp mounting, adjustable ± 10° Material: PBT F 10
	79581-881	Part number / Article number Description Suitable for	MBD F 10ST2 / 660-01004 Universal rod mounting component for attaching dovetail F 10 to mounting rods ∅ 6 mm adjustable ± 45° Material: die-cast zinc F 10
To the second se	3.1 00000 ESI 15 15 15 17 13.7	Part number / Article number Description Suitable for	MS F 10 / 660-01000 Mounting bracket with screws 1x mounting plate M3 1x mounting plate Ø 3.1 mm Material: stainless steel V2A F 10



Brackets for FT 25			
	33.3 88.	Part number / Article number Description Suitable for	MS F 20 / 558-41000 Mounting bracket with screws 1x retaining strip Material: nickel-plated steel F 25
	153-07156	Part number / Article number Description Suitable for	MBD F 25ST2 / 661-01005 Clamping bracket for Ø 12 mm mounting rod and 10 x 10 mm square profile, with M4 screw and M4 nut Material: die-cast zinc F 25
	153-01163	Part number / Article number Description Suitable for	Set: MBD F 25STP / 661-01004 Clamping bracket for Ø 12 mm mounting rod and 10 x 10 mm square profile, with protective casing, M4 screw, M4 thumbscrew, M4 nut, 2x M3 screw Material: die-cast zinc Casing Material: stainless steel V2A F 25
23 - Will mines	153-00945	Part number / Article number Description Suitable for	MBD F 25 / 661-01000 Dovetail clamp mounting, adjustable ± 15°, with screws Material: anodised aluminium F 25
	30 M3 (2a) 16.3 (2a) (5.5 E) 16.3 (5.5 E)	Part number / Article number Description Suitable for	MSP F 20-11 / 558-41006 Protective sensor angle bracket with screws, very robust Material: stainless steel V2A F 25
	96700-ESI	Part number / Article number Description Suitable for	MSP F 20-1 / 558-41004 Protective sensor angle bracket with screws, very robust Material: stainless steel V2A F 25

Accessories

Brackets

Brackets for FT 25 (Cont.)			
	32 80600-CSI 80600-CSI 80600-CSI 80600-CSI	Part number / Article number Description Suitable for	MSP F 20-23 / 558-41011 Protective sensor angle bracket with screws, very robust Material: stainless steel V2A F 25
	32 26° E 4 4 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Part number / Article number Description Suitable for	MSP F 20-2 / 558-41005 Protective sensor angle bracket with screws, very robust Material: stainless steel V2A F 25
	30 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	Part number / Article number Description Suitable for	MSP F 20-13 / 558-41008 Protective sensor angle bracket with screws, very robust Material: stainless steel V2A F 25
	30 16.3 72.66.00 F.S.C.	Part number / Article number Description Suitable for	MSP F 20-12 / 558-41007 Protective sensor angle bracket with screws, very robust Material: stainless steel V2A F 25
	25.7 (4x) (4x) (5x) (7x) (7x) (7x) (7x) (7x) (7x) (7x) (7	Part number / Article number Description Suitable for	MSP F 20-21 / 558-41009 Protective sensor angle bracket with screws, very robust Material: stainless steel V2A F 25
	25.7° 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	Part number / Article number Description Suitable for	MSP F 20-22 / 558-41010 Protective sensor angle bracket with screws, very robust Material: stainless steel V2A F 25



Brackets for FT 50 / FT 55			
	65 8.5 4.3 8.67 N) September 24.3 (7x) Septemb	Part number / Article number Description Suitable for	MSP F 50 / 579-50005 Protective sensor angle bracket with screws, very robust, light exit possible on three sides Material: stainless steel VA F 50
	50000 EST	Part number / Article number Description Suitable for	MS F 50 / 579-50000 Angle bracket with screws Material: stainless steel VA F 50 F 55
	153.0116.	Part number / Article number Description Suitable for	MB ST2 / 661-01007 Mounting component for Ø 12 mm mounting rod and 10 x 10 mm square profile, and F 55 and fork sensors (FGL), with M4 screw Material: die-cast zinc F 55
	81800°CS1	Part number / Article number Description Suitable for	MS F 55 / 579-50010 Angle bracket with screws Material: stainless steel V2A F 50 F 55
	85 9 4.8 (7x) M4 (7x)	Part number / Article number Description Suitable for	MSP F 55 / 579-50011 Protective sensor angle bracket with screws, very robust Material: stainless steel V2A F 55
9	19 A A A A A A A A A A A A A A A A A A A	Part number / Article number Description Suitable for	MBD-S94 / 533-21000 Dovetail double clamp mounting Material: metal F 55

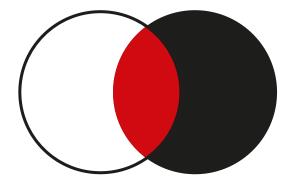
Accessories

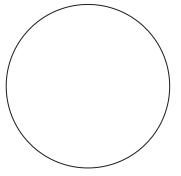
Cables

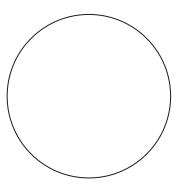


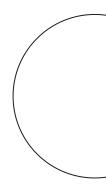
SENSOR Cables

Part number	Article number	Description
M8 socket, 3-pin		Connection lines for actuators and sensors
		with self-locking threaded joint, unshielded, suitable for drag chains
K3-2m-G-PUR	902-50679	2 m, straight, PUR, IP 67 / IP 69K
K3-5m-G-PUR	902-51614	5 m, straight, PUR, IP 67 / IP 69K
K3-10m-G-PUR	902-50694	10 m, gerade, PUR, IP 67 / IP 69K
K3-2m-W-PUR	902-50681	2 m, 90 °, PUR, IP 67 / IP 69K
K3-5m-W-PUR	902-51615	5 m, 90 °, PUR, IP 67 / IP 69K
K3-2m-W-PL-PUR	902-50683	2 m, 90 °, PUR, IP 67 / IP 69K, with indicator LED
K3-5m-W-PL-PUR	902-51616	5 m, 90 °, PUR, IP 67 / IP 69K, with indicator LED
K3-10m-W-PL-PUR	902-50693	10 m, 90 °, PUR, IP 67 / IP 69K, with indicator LED
M8 socket, 4-pin		Connection lines for actuators and sensors with self-locking threaded joint, unshielded, suitable for drag chains
K4-2m-G-PUR	902-50801	2 m, straight, PUR, IP 67 / IP 69K
K4-5m-G-PUR	902-51617	5 m, straight, PUR, IP 67 / IP 69K
K4-10m-G-PUR	902-51610	10 m, straight, PUR, IP 67 / IP 69K
K4-2m-W-PUR	902-50803	2 m, 90 °, PUR, IP 67 / IP 69K
K4-5m-W-PUR	902-51618	5 m, 90 °, PUR, IP 67 / IP 69K
K4-10m-W-PUR	902-51629	10 m, 90 °, PUR, IP 67 / IP 69K
K4-2m-W-PL-PUR	902-51642	2 m, 90 °, PUR, IP 65 / IP 67 / IP 68, with indicator LED
K4-2m-W-PL-PUR K4-5m-W-PL-PUR	902-51642 902-51643	2 m, 90 °, PUR, IP 65 / IP 67 / IP 68, with indicator LED 5 m, 90 °, PUR, IP 65 / IP 67 / IP 68, with indicator LED



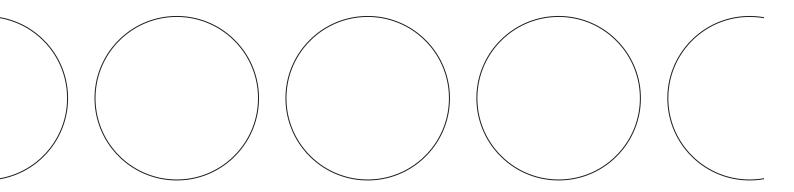








Part number	Article number	Description
M12 socket, 4-pin		Connection lines for actuators and sensors with self-locking threaded joint, unshielded, suitable for drag chains
L4-300mm-G-PUR	902-50811	0.3 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-2m-G-PUR	902-50805	2 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-5m-G-PUR	902-51612	5 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-10m-G-PUR	902-51628	10 m, straight, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-2m-W-PUR	902-50807	2 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-5m-W-PUR	902-51602	5 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68
L4-2m-W-PL-PUR	902-50808	2 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68, with indicator LED
L4-5m-W-PL-PUR	902-51603	5 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68, with indicator LED
L4-10m-W-PL-PUR	902-51604	10 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68, with indicator LED
L4-15m-W-PL-PUR	902-51607	15 m, 90 °, a-coded, PUR, IP 65 / IP 67 / IP 68, with indicator LED
M12 socket, 4-pin		Connection lines for actuators and sensors with self-locking threaded joint, shielded 360 °
L4S-2m-G-PVC	902-51632	2 m, straight, a-coded, PVC, IP 67
L4S-5m-G-PVC	902-51634	5 m, straight, a-coded, PVC, IP 67
L4S-10m-G-PVC	902-51651	10 m, straight, a-coded, PVC, IP 67
L4S-2m-W-PVC	902-51633	2 m, 90 °, a-coded, PVC, IP 67
L4S-5m-W-PVC	902-51635	5 m, 90 °, a-coded, PVC, IP 67
M12 socket, 4-pin * M12 plug, 4-pin		Connection lines, plugs and sockets ready to assemble, for actuators and sensors with self-locking threaded joint, unshielded
CL4 FG-E-5m-PVC	902-50219	5 m, straight, PVC, IP 67, hex nut SW 9 V2A, suited for food and beverages industries
CL4 FW-E-5m-PVC	902-50220	5 m, 90 °, PVC, IP 67 / IP 69K, hex nut SW 14 V2A, suited for food and beverages industries
L4 KDG	022-50812	Coupling socket, ready to assemble, straight, with threaded joint, PBT, IP 67
L4 KDW	022-50813	Coupling socket, ready to assemble, 90 °, with threaded joint, PBT, IP 67
LS4-60-G-K	022-10773*	Connector, ready to assemble, with threaded joint, PA, IP 67
M12, 4-pin - M12, 4-pin Plug - socket		Connection lines, specifically for FT 85 with self-locking threaded joints, unshielded, suitable for drag chains
L4F/L4M-0,48 PUR	902-51670	0.48 m, M12 90 °, a-coded to M12 straight, a-coded, PUR, IP 67
L4F/L4M-B-codiert-0,48 PUR	902-51739	0.48 m, M12 90 °, a-coded to M12 straight, b-coded, PUR, IP 67
L4F/L4M-B-codiert-0,48-X02 PUR	902-51823	0.48 m, M12 90 °, a-coded to M12 straight, b-coded, twist PIN 2 & 4, PUR, IP 67
L4F/L4M/B-codiert-1,00 PUR	902-51827	1 m, M12 90 °, a-coded to M12 straight, b-coded, PUR, IP 67



We look ahead

Yesterday, today and in the future











"We gauge ourselves not by what is possible today, but by our vision of what can be achieved" – this has been our motto since the foundation of SensoPart in 1994. Our goal is to always be a step ahead and to be able to offer our customers the most innovative sensor for industrial automation.

True to this motto, we offer easy-to-integrate VISOR® vision sensors and compact laser sensors with outstanding background suppression made in Germany.

We still also have plenty of ideas for the future - watch this space.

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Diffuse sensors
Laser sensors
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Smart cameras
Vision systems
Object detection
Object measurement
Color detection
Code reading
Lighting
Lenses

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