

FSE 18-2

Photoelectric through-beam sensor



PRODUCT HIGHLIGHTS

- Economical solution for numerous applications
- Long range of up to 10 m
- Simple adjustment via potentiometer
- 2 through holes as additional mounting possibility

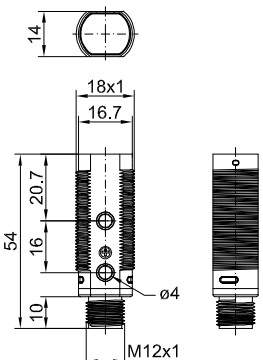
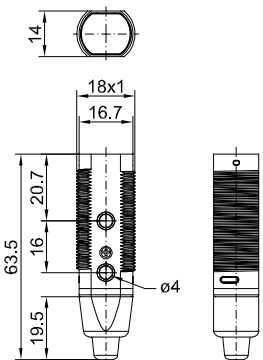
Optical data		Functions	
Operating range	10 m	Indicator LED, green	Operating voltage indicator
Type of light	See selection table	Indicator LED, yellow	Switching output indicator
		Sensitivity adjustment	Via potentiometer
		Adjustment possibilities	N.O./N.C. via control input (IN)
		Default settings	Max. scanning distance and N.O.
Electrical data		Mechanical data	
Operating voltage, +U _B	10 ... 30V DC	Dimensions	See dimensional drawings
No-load current, I ₀	≤ 30 mA	Enclosure rating	IP 67 ¹
Output current, I _e	≤ 100 mA	Material, housing	Brass, nickel-plated
Protective circuits	Reverse-polarity protection, U _B / short-circuit protection	Material, front screen	PMMA
Switching output, Q	PNP/NPN (see selection table)	Type of connection	See selection table
Output function	N.O./N.C.	Ambient temperature: operation	-25 ... +55 °C
Switching frequency, f (ti/tp 1:1)	≤ 400 Hz	Weight (plug device)	46 g
Response time	≤ 2.5 ms	Weight (cable device)	130 g
Control input, IN	+U _B = Test (transmitter off) -U _B / open = normal operation	Max. tightening torque	3 Nm

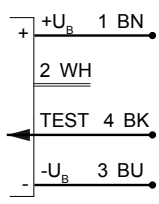
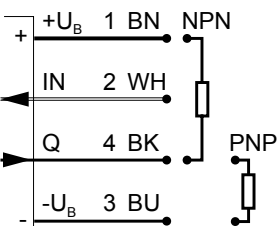
¹ With connected IP 67 plug

Transmitter / receiver	Type of light	Light exit	Switching output	Type of connection	Part number	Article number
Transmitter / receiver	Infrared	Straight	PNP	Metal plug, M12, 4-pin	FSE 18-2 IM-PS-L4	742-51004
Transmitter / receiver	Infrared	Straight	NPN	Metal plug, M12, 4-pin	FSE 18-2 IM-NS-L4	742-51005
Transmitter / receiver	Infrared	Straight	PNP	Cable, 2 m, 4-wire	FSE 18-2 IM-PS-K4	742-51006
Transmitter / receiver	Infrared	Straight	NPN	Cable, 2 m, 4-wire	FSE 18-2 IM-NS-K4	742-51007

Scope of delivery

Transmitter & receiver
2 x securing nuts

Plug connection	Cable connection
 <p style="text-align: right;">153-00985</p>	 <p style="text-align: right;">153-00984</p>

Connection, 4-pin (transmitter)	Connection, 4-pin (receiver)
 <p style="text-align: right;">154-00516</p>	 <p style="text-align: right;">154-00312</p>

Accessories	
Connection cables	From Page A-38
Brackets	From Page A-4