

FMH 18

Photoelectric diffuse sensor with background suppression



PRODUCT HIGHLIGHTS

- Scanning distance: 40 ... 120 mm
- Red light, 660 nm
- Background suppression
- Robust metal housing
- Metal M18 threaded sleeve
- Antivalent switching outputs

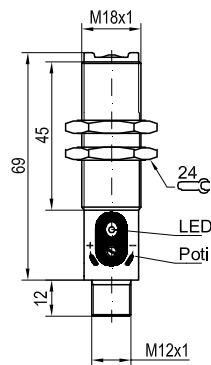
Optical data		Functions	
Scanning distance	40 ... 120 mm ¹	Indicator LED, yellow	Switching state indicator
Type of light	Red, 660 nm	Scanning distance adjustment	Via 18-step potentiometer
Light spot size	8 x 10 mm ²		
Electrical data		Mechanical data	
Operating voltage, +U _B	10 ... 30V DC ³	Dimensions	See dimensional drawings
No-load current, I ₀	≤ 30 mA	Enclosure rating	IP 67 ⁴
Output current, I _e	200 mA	Material, housing	Brass, nickel-plated
Protective circuits	Reverse-polarity protection, U _B / short-circuit protection	Material, front screen	Glass
Protection Class	2	Type of connection	See selection table
Power On Delay	≤ 300 ms	Ambient temperature: operation	-20 ... +60 °C
Switching output, Q	PNP	Ambient temperature: storage	-20 ... +80 °C
Output function	N.O./N.C.	Weight (plug device)	60 g
Switching frequency, f (ti/tp 1:1)	600 Hz	Weight (cable device)	160 g
Connection, BK	N.O.		
Connection, WH	N.C.		

¹ Reference material: Kodak grey, 18 % reflectivity ² At scanning distance of 100 mm ³ 10 % ripple, within U_B ⁴ With connected IP 67 plug

Scanning distance	Light exit	Switching output	Type of connection	Part number	Article number
40 ... 120 mm	Straight	PNP, antivalent	Plug, M12, 4-pin	FMH 18-L4	518-51505
40 ... 120 mm	Straight	PNP, antivalent	Cable, 3 m, 4-wire	FMH 18	518-51504

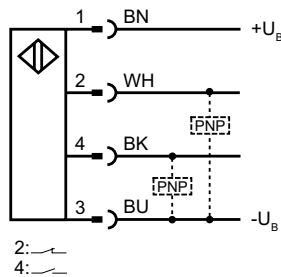
Accessories	
Connection cables	www.sensopart.com/en/accessories
Brackets	

Plug connection, FMH 18-L4



153-00029

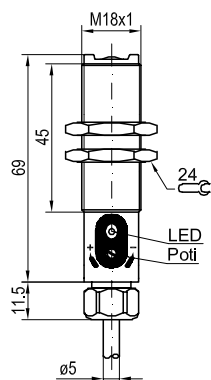
Connection, 4-pin



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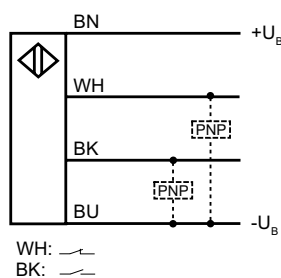
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Cable connection, FMH 18



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Connection, 4-wire



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