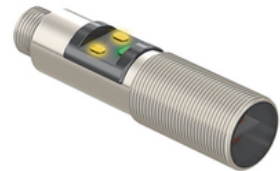


M18-4VPFF150-Q8

Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



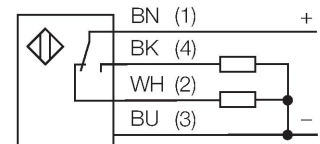
Technical data

Type	M18-4VPFF150-Q8
ID	3800607
Optical data	
Function	Proximity switch
Operating mode	Background suppression, non-adjustable
Light type	Red
Wavelength	624 nm
Range	1...150 mm
Electrical data	
Operating voltage	10...30 VDC
No-load current	≤ 16 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Complementary contact, PNP
Readiness delay	≤ 100 ms
Response time typical	< 1.5 ms
Mechanical data	
Design	Tube, M18
Dimensions	Ø 18 x 73 mm
Housing material	Metal, Stainless steel
Lens	Acrylic
Electrical connection	Connector, M12 × 1, PVC
Number of cores	4
Ambient temperature	-40...+70 °C
Protection class	IP67 IP69

Features

- M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40...+70° C
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

Wiring diagram



Functional principle

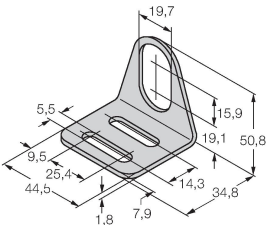
Diffuse mode sensors with background suppression operate with a single emitter and several receiver elements. The target's position and the optical structure of the sensor determine which receiver element gets the most light. The sensor electronics then determines whether the reflecting target is in or outside the measuring range. These sensors come with a fixed cut-off point.

Technical data

Special features	Chemical-resistant Wash down Resistant to chemicals
Power-on indication	LED, Green
Switching state	2 × LEDs, Yellow
Error indication	Flashing
Excess gain indication	LED
Alarm display	Flashing
Tests/approvals	
Approvals	CE, cULus

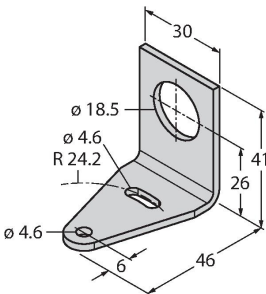
Accessories

MW-186945004



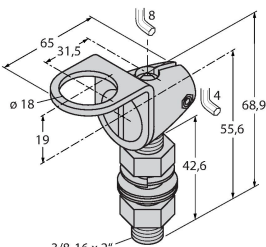
Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

SMB18A3033200



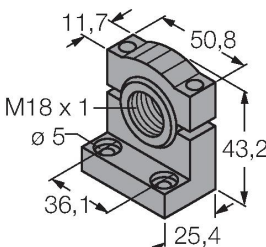
Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

SMB18FAM103011184



Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

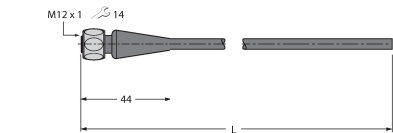
SMB18SF3052519

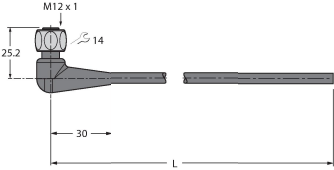


Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable

SMBS18-2-13085931

Accessories

Dimension drawing	Type	ID	
	RKH4.4-2/TFG	6933086	Connection cable, M12 female, straight, 4-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray temperature range -40...+105 °C; other cable lengths and designs available, see www.turck.com

Dimension drawing	Type	ID	
	WKH4.4-2/TFG	6933093	Connection cable, M12 female, angled, 4-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray temperature range -40...+105 °C; other cable lengths and designs available, see www.turck.com