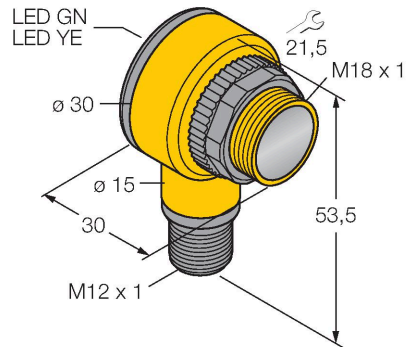


# T18-2VPFF75-Q8

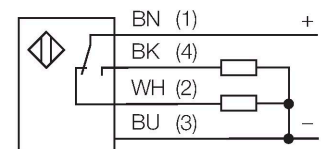
## Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression



### Features

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

### Wiring diagram



### Functional principle

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance

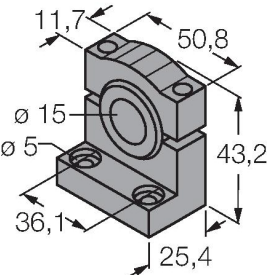
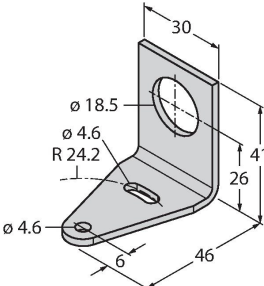
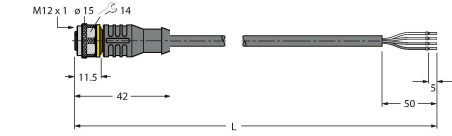
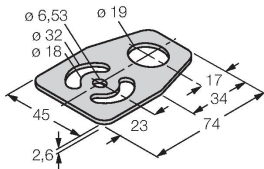
### Technical data

Type	T18-2VPFF75-Q8
ID no.	3802664
<b>Optical data</b>	
Function	Proximity switch
Operating mode	Background suppression, non-adjustable
Light type	IR
Wavelength	624 nm
<b>Electrical data</b>	
Operating voltage	10...30 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Complementary contact, PNP
Readiness delay	≤ 500 ms
Response time typical	< 1.5 ms
<b>Mechanical data</b>	
Design	Rectangular with thread, T18
Dimensions	30 x 30 x 54 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Acrylic
Electrical connection	Connectors, M12 × 1
Number of cores	4
Ambient temperature	-40...+70 °C
Protection class	IP67 IP68 IP69

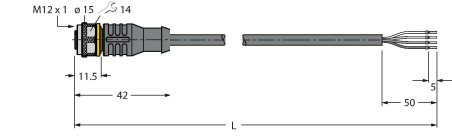
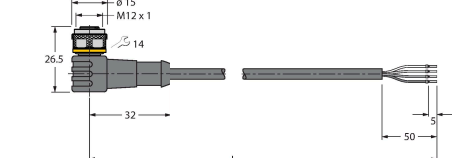
Technical data

Special features	Chemical-resistant Encapsulated Wash down Resistant to chemicals
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Alarm display	LED yellow Flashing
Tests/approvals	
MTTF	448 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, UL, CSA

Accessories

SMB1815SF	3053279	SMB18A	3033200
	Mounting bracket, PBT black, for PICO-GUARD points		Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread
SMB18FM	3079421	SMBAMS18P	3073134
	mounting bracket, black, M22 x1.5 mm, male thread, female thread M18 x 1, for sensors with 18 mm thread		Mounting bracket, stainless steel, for sensors with 18 mm thread

Accessories

Dimension drawing	Type	ID no.	
	RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	WKC4.4T-2/TEL	6625025	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com