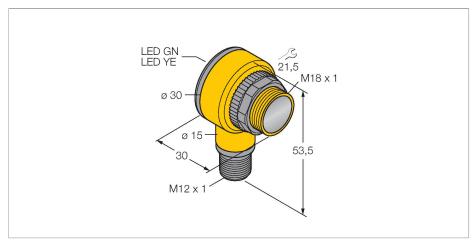
# T18-2VNLPC-Q8 Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



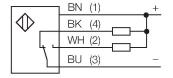
#### Technical data

ID 3802631  Optical data Function Retroreflective Sensor  Operating mode Polarized  Reflector included in delivery no  Light type Red polarized  Wavelength 624 nm  Range 05500 mm  Electrical data Operating voltage 1030 VDC  No-load current ≤ 25 mA  Short-circuit protection yes / Cyclic  Reverse polarity protection yes  Output function Complementary contact, NPN  Readiness delay ≤ 500 ms  Response time typical < 1.5 ms  Overcurrent release > 220 mA  Setting option Potentiometer  Mechanical data  Design Tube, T18  Dimensions 30 x 30 x 54 mm  Housing material Plastic, Thermoplastic material  Lens plastic, Acrylic  Electrical connection Connector, M12 x 1  Number of cores 4	Туре	T18-2VNLPC-Q8		
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Operating mode       Polarized         Reflector included in delivery       no         Light type       Red polarized         Wavelength       624 nm         Range       05500 mm         Electrical data       0perating voltage         Operating voltage       1030 VDC         No-load current       ≤ 25 mA         Short-circuit protection       yes / Cyclic         Reverse polarity protection       yes         Output function       Complementary contact, NPN         Readiness delay       ≤ 500 ms         Response time typical       < 1.5 ms	Optical data			
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Light type       Red polarized         Wavelength       624 nm         Range       05500 mm         Electrical data       0         Operating voltage       1030 VDC         No-load current       ≤ 25 mA         Short-circuit protection       yes / Cyclic         Reverse polarity protection       yes         Output function       Complementary contact, NPN         Readiness delay       ≤ 500 ms         Response time typical       < 1.5 ms	Operating mode	Polarized		
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Reverse polarity protection       yes         Output function       Complementary contact, NPN         Readiness delay       ≤ 500 ms         Response time typical       < 1.5 ms	No-load current	≤ 25 mA		
Output function       Complementary contact, NPN         Readiness delay       ≤ 500 ms         Response time typical       < 1.5 ms	Short-circuit protection	yes / Cyclic		
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Overcurrent release       > 220 mA         Setting option       Potentiometer         Mechanical data       Tube, T18         Dimensions       30 x 30 x 54 mm         Housing material       Plastic, Thermoplastic material         Lens       plastic, Acrylic         Electrical connection       Connector, M12 x 1	Readiness delay	≤ 500 ms		
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Housing material  Lens  plastic, Thermoplastic material  plastic, Acrylic  Electrical connection  Connector, M12 × 1	Design	Tube, T18		
Lens plastic, Acrylic  Electrical connection Connector, M12 × 1	Dimensions	30 x 30 x 54 mm		
Electrical connection Connector, M12 × 1	Housing material	Plastic, Thermoplastic material		
	Lens	plastic, Acrylic		
Number of cores 4	Electrical connection	Connector, M12 × 1		
	Number of cores	4		

## **Features**

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

# Wiring diagram



# Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device.

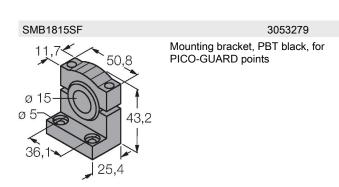
Excess gain curve Excess gain in relation to the distance



## Technical data

Ambient temperature	-40+70 °C
Protection class	IP67 IP68 IP69
Special features	Chemical-resistant Encapsulated Wash down Resistant to chemicals
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
Approvals	CE, UL, CSA

#### Accessories



SMB18A

Ø 18.5

Ø 4.6

R 24.2

Ø 4.6

Ø 4.6

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

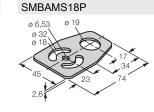
3033200

SMB18FM 3079421

mounting bracket, black, M22 x1.5

mm, male thread, female thread M18

x 1, for sensors with 18 mm thread



3073134 Mounting bracket, stainless steel, for sensors with 18 mm thread

## Accessories

Dimension drawing	Туре		ID	
M12 x 1 o 15 / 14	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



