

TM18AP6DVQ5 Photoelectric Sensor – Diffuse Mode Sensor

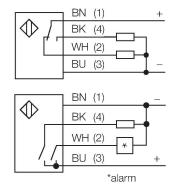
Technical data		
Туре	TM18AP6DVQ5	
ID no.	3018022	
Optical data		
Function	Proximity switch	
Operating mode	Diffuse	
Light type	Red	
Wavelength	880 nm	
Range	500 mm	
Electrical data		
Operating voltage	1030 VDC	
No-load current	≤ 25 mA	
Short-circuit protection	yes / Cyclic	
Reverse polarity protection	yes	
Output function	Connection programmable, PNP	
Switching frequency	≤ 160 Hz	
Readiness delay	≤ 100 ms	
Response time typical	< 3 ms	
Overcurrent release	> 220 mA	
Mechanical data		
Design	Rectangular with thread, TM18	
Dimensions	Ø 18 x 30 x 30 x 41 mm	
Housing material	Metal, Zinc Die-Cast with Nickel-Plating	
Lens	plastic, Acrylic	
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC	
Number of cores	4	
Core cross-section	0.5 mm ²	
Ambient temperature	-40+70 °C	
Protection class	IP67 IP69	
Special features	Encapsulated Wash down	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Error indication	LED, green, Flashing	
Excess gain indication	LED	
Alarm display	LED yellow Flashing	



Features

- Cable with male end M12 × 1, 4-pin, PUR, 150 mm
- ■Protection class IP67
- ■Ambient temperature: -40 °C...+70 °C
- Metal housing
- ■500 mm range
- Operating voltage: 10...30 VDC
- ■PNP switching output, changeover

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

Approvals

SMBT18Y 3069554

mounting bracket, rectangular, for sensors with 18 mm thread, 15.3 mm cable feedthrough or M12 x 1 male SMB18A

Ø 18.5

Ø 4.6

R 24.2

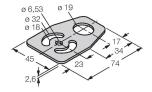
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3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

SMBAMS18P

3073134

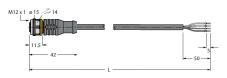


Mounting bracket, stainless steel, for sensors with 18 mm thread

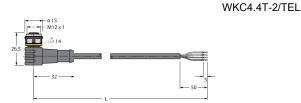
Accessories

Dimension drawing	Туре	ID no.

RKC4.4T-2/TEL 6625013



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

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