

TM18AP6DVQ5 Photoelectric Sensor – Diffuse Mode Sensor

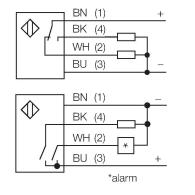
Technical data	
Туре	TM18AP6DVQ5
ID	3018022
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	Red
Wavelength	880 nm
Range	500 mm
Electrical data	
Operating voltage	1030 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, PNP
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Overcurrent release	> 220 mA
Mechanical data	
Design	Tube, 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 mm²
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

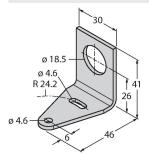
Technical data

Tests/approvals	
Approvals	CE, UL

Accessories

SMBT18Y 3069554 SMB18A mounting bracket, rectangular, for

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



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

3033200

SMBAMS18P

0 6,53 0 19
0 32
0 18
17
34
45
23
74

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

3073134

Accessories

Dimension drawing	Туре	ID	
M12x1 o 15 /2 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



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