

TM18N6DQP

Photoelectric Sensor – Diffuse Mode Sensor

Technical data

Type	TM18N6DQP
ID	3002889
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	Red
Wavelength	880 nm
Range	500 mm
Operating voltage	10...30 VDC
Readiness delay	≤ 300 ms
Response time typical	< 3 ms
Setting option	Push Button
Mechanical data	
Design	Rectangular with thread, TM18
Dimensions	Ø 18 x 30 x 30 x 41 mm
Housing material	Metal/plastic, CuZn
Lens	plastic, Acrylic
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PUR
Number of cores	4
Core cross-section	0.5 mm²
Ambient temperature	-20...+55 °C
Protection class	IP67
Special features	Wash down
Excess gain indication	LED
Tests/approvals	
Approvals	CE, UL



Features

- Cable with male end M12 × 1, 4-pin, PUR, 150 mm
- Protection class IP67
- Ambient temperature: -40 °C...+70 °C
- Metal housing

Functional principle

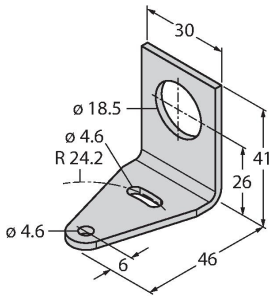
The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance

Accessories

SMBT18Y	3069554	mounting bracket, rectangular, for sensors with 18 mm thread, 15.3 mm cable feedthrough or M12 x 1 male
SMB18A	3033200	Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread



SMBAMS18P

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

