

TM18N6LPQP

Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter

Technical data

Type	TM18N6LPQP
ID	3002890
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	624 nm
Range	0...3000 mm
Operating voltage	10...30 VDC
No-load current	≤ 20 mA
Switching frequency	≤ 500 Hz
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 mm ²
Ambient temperature	-20...+55 °C
Protection class	IP67
Special features	Wash down
Excess gain indication	LED
Tests/approvals	
Approvals	CE, UL

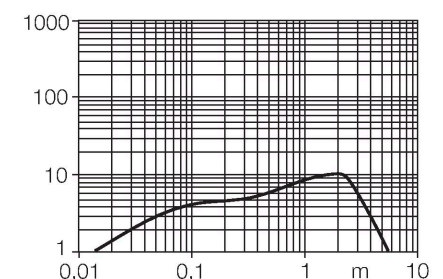


Features

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

Functional principle

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



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

Accessories

Dimension drawing	Type	ID	
	BRT-84	3058979	Round reflector, reflection coefficient 1.4, material acrylic, ambient temperature -20 ... +60 °C