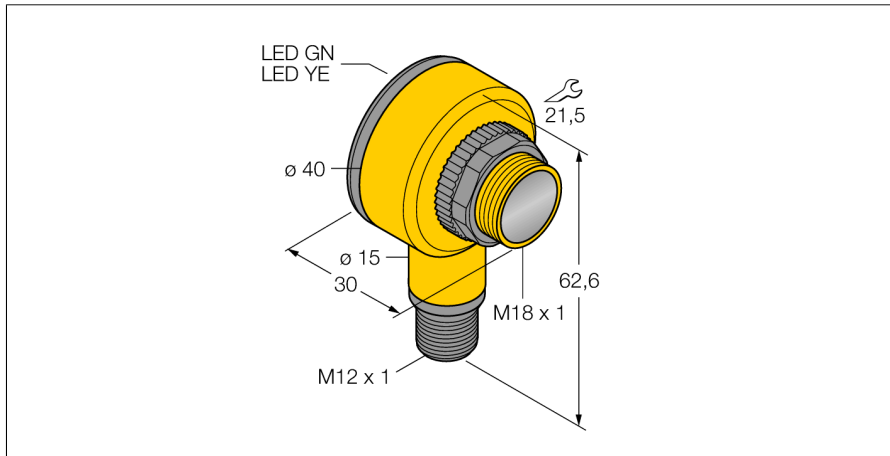
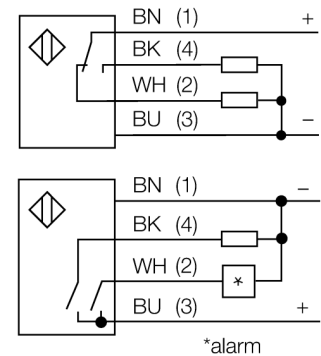


Photoelectric Sensor
diffuse mode sensor
T18SP6DQ



- M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40 °C...+70 °C
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

Wiring Diagram

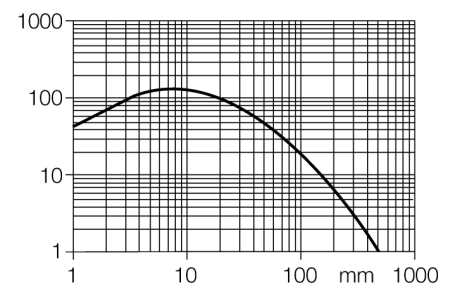


Functional principle

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

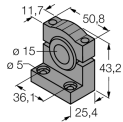
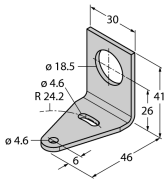
Excess gain in relation to the distance



Type designation	T18SP6DQ
Ident no.	3034631
Light type	IR
Wavelength	880 nm
Range	0...500 mm
Ambient temperature	-40...+70 °C
Operating voltage	10...30 VDC
No-load current I ₀	≤ 25 mA
Short-circuit protection	yes/ Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, PNP
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Readiness delay	≤ 100 ms
Overcurrent release	> 220 mA
Approvals	CE, UL, CSA
Design	Rectangular with thread, T18
Dimensions	30 mm x 30 mm x 54 mm
Housing diameter	18 mm
Housing material	Plastic, PBT
Lens	plastic, Acrylic
Electrical connection	Connectors, M12 × 1, PVC
Cable cross section	4 mm ²
Protection class	IP69K
Special features	Encapsulated
Power-on indication	Wash down
Switching state	LED, Green
Error indication	LED, Yellow
Excess gain indication	LED green Flashing
Alarm display	LED
	LED yellow Flashing

**Photoelectric Sensor
diffuse mode sensor
T18SP6DQ**

Accessories

Type code	Ident no.	Description	
SMB1815SF	3053279	Mounting bracket, PBT black, for PICO-GUARD points	
SMB18A	3033200	Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread	
SMB18FM	3079421	mounting bracket, black, M22 x1.5 mm, male thread, female thread M18 x 1, for sensors with 18 mm thread	
SMBAMS18P	3073134	Mounting bracket, stainless steel, for sensors with 18 mm thread	