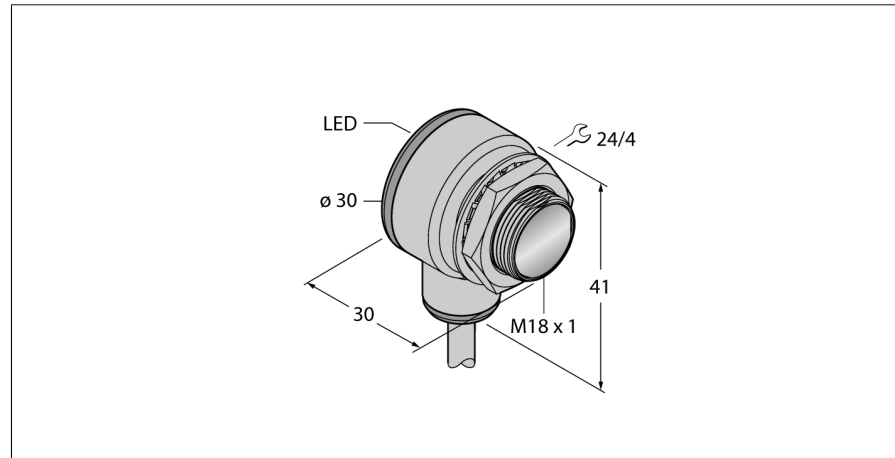
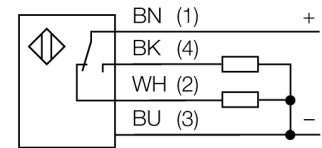


Photoelectric sensor
diffuse mode sensor with fixed-field background suppression
TM18VP6FF25



- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Metal housing
- Operating voltage: 10...30 VDC
- PNP switching output, light and dark operation

Wiring diagram



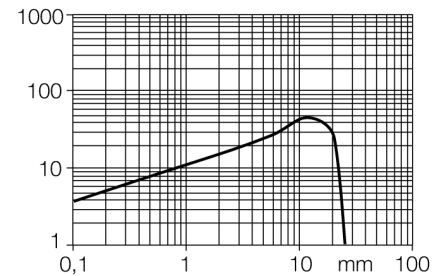
Type code	TM18VP6FF25
Ident no.	3042037
Operating mode	diffuse mode sensor with fixed-field background suppression
Light type	red
Wavelength	660 nm
Range	0...25 mm
Ambient temperature	-40...+70 °C
Operating voltage	10...30VDC
No-load current I_0	≤ 25 mA
Short-circuit protection	yes/ cyclic
Reverse polarity protection	yes
Output function	changover contact, PNP
Switching frequency	≤ 220 Hz
Readiness delay	≤ 100 ms
Design	cylindrical/threaded, TM18
Dimensions	30 x 30 x 41 mm
Housing material	metal/plastic, CuZn
Lens	plastic, acrylic
Connection	cable
Cable length	2 m
Cable cross section	4 x 0.5 mm ²
Protection class	IP67
MTTF	448 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing

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.

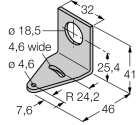
Excess gain curve

Excess gain in relation to the distance



**Photoelectric sensor
diffuse mode sensor with fixed-field background suppression
TM18VP6FF25**

Accessories

Type code	Ident no.	Description	Dimension drawing
SMBT18Y	3069554	mounting bracket, rectangular, for sensors with 18 mm thread, 15.3 mm cable feedthrough or M12 x 1 male	 <p>Technical drawing of the SMBT18Y mounting bracket showing dimensions: 32 mm width, 4.6 mm cable feedthrough, 4.6 mm hole diameter, 25.4 mm height, 41 mm total height, 7.6 mm base width, and R 24.2 mm radius.</p>
SMB18A	3033200	Mounting bracket, stainless steel, for sensors with 18 mm thread	
SMBAMS18P	3073134	Mounting bracket, stainless steel, for sensors with 18 mm thread	

