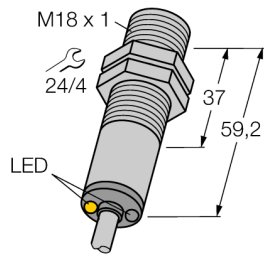


**Photoelectric sensor  
diffuse mode sensor  
M18SP6D**



- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Metal housing
- Connecting cable, 2 m
- Stainless steel housing
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

**Wiring diagram**

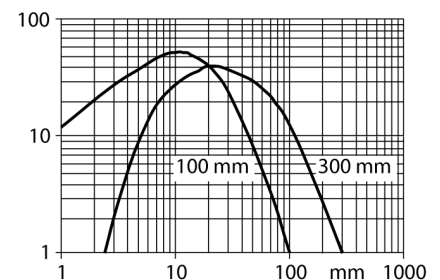


**Functional principle**

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



<b>Type code</b>	M18SP6D
Ident no.	3048662
<b>Operating mode</b>	diffuse mode sensor
Light type	IR
Wavelength	880 nm
Range	0...100 mm
Ambient temperature	-40...+70 °C
<b>Operating voltage</b>	10...30VDC
No-load current I <sub>0</sub>	≤ 25 mA
Short-circuit protection	yes/ cyclic
Reverse polarity protection	yes
Output function	connection programmable, PNP
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Overcurrent release	> 220 mA
<b>Design</b>	cylindrical/threaded, M18
Dimensions	59.2 mm
Housing diameter	18 mm
Housing material	metal, V2A (1.4305)
Lens	plastic, acrylic
Connection	cable
Cable length	2 m
Cable cross section	4 x 0.5 mm <sup>2</sup>
Protection class	IP67
<b>Power-on indication</b>	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing

