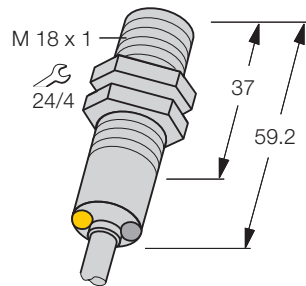


photoelectric sensor

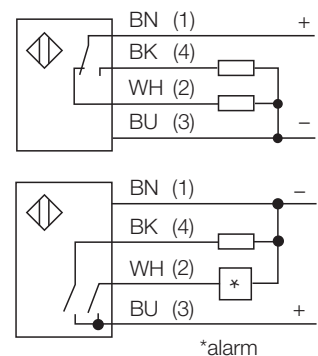
retro-reflective sensor with polarisation filter

M18SP6LP



- selectable light or dark operation or light operation with alarm function
- connection cable, 2 m
- Operating voltage 10...30 VDC
- pnp switching output
- degree of protection IP69K

Wiring diagram

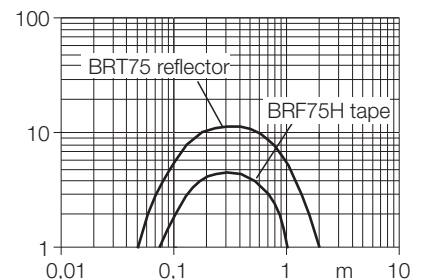


Functional principle

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



Type	M18SP6LP
Ident-No.	3048658
Operating mode	retro-reflective sensor with polarisation filter
Light type	red
Wavelength	680 nm
Range	50... 2000 mm
Ambient temperature	-40...+ 70°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 150 mA
No-load current I ₀	≤ 30 mA
Output function	connection programmable, PNP
Switching frequency	≤ 160Hz
Readiness delay	≤ 100 ms
Overcurrent release	>220 mA
Housing	cylindrical/threaded, M18
Dimensions	59.2mm
Housing diameter	Ø 18mm
Housing material	Metal, V2A (1.4305)
Lens	plastic, acrylic
Electrical connection	cables
Cable length	2 m
Cable cross section:	4 x 0.5mm ²
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing