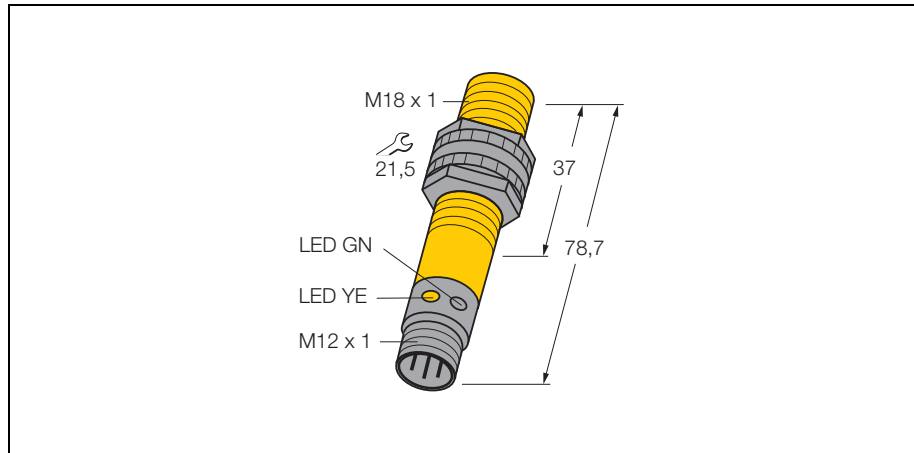


photoelectric sensor

retro-reflective sensor with polarisation filter

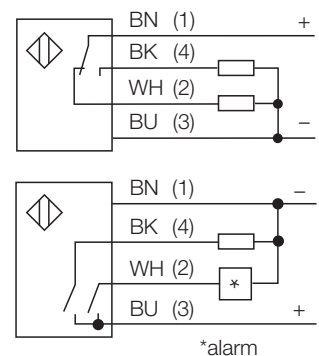
S18SP6LPQ



Type	S18SP6LPQ
Ident-No.	3033450
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, S18
Dimensions	78.7mm
Housing diameter	Ø 18mm
Housing material	Plastic, PBT
Lens	plastic, acrylic
Electrical connection	Connectors, M12 x 1
Protection class	IP68 / IP69K
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing

- selectable light or dark operation or light operation with alarm function
- M12 x 1 connector
- degree of protection IP68 - IP69K
- 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

