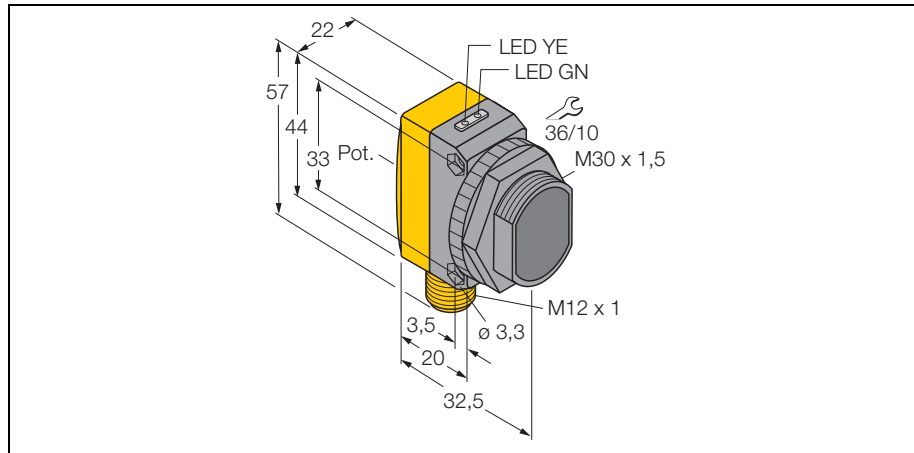


photoelectric sensor

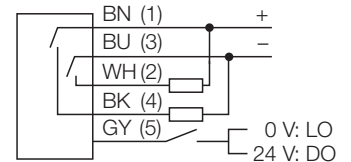
retro-reflective sensor with polarisation filter

QS30LPQ



- sensitivity adjustable via potentiometer
- Male connector, M12x1, 5-pole

Wiring diagram

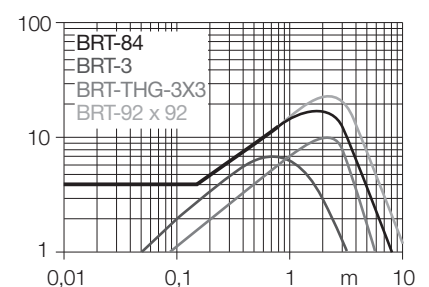


Functional principle

Retro-reflective sensors incorporate emitter and receiver in the same 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 incorporate some of the advantages of opposed mode sensors (good contrast and high excess gain). Further it is merely required to install and wire a single device. A smaller sensing range and susceptibility of devices without polarisation filter can be of disadvantage when shiny objects have to be detected.

Excess gain curve

Excess gain in relation to the distance



Type	QS30LPQ
Ident-No.	3073084
Operating mode	retro-reflective sensor with polarisation filter
Light type	red
Wavelength	630 nm
Range	0... 8000 mm
Ambient temperature	-20...+ 70°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 35 mA
Switching frequency	≤ 250Hz
Readiness delay	≤ 100 ms
Housing	rectangular, QS30
Dimensions	35x 22x 57mm
Housing material	Plastic, ABS
Lens	plastic, acrylic
Electrical connection	Connectors, M12 x 1
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Excess gain indication	LED yellow