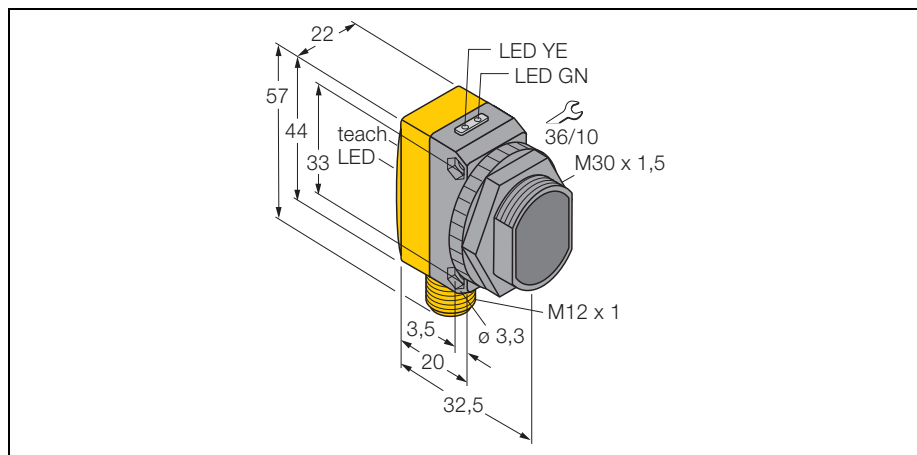
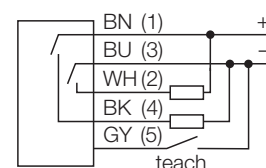


photoelectric sensor
retro-reflective laser sensor
QS30LLPQ



- compact housing style
- rectangular
- LED visible from all sides
- reflector included in scope of supply
- Max. excess gain setting for high range
- Male connector, M12x1, 5-pole

Wiring diagram



Type	QS30LLPQ
Ident-No.	3002994
Operating mode	retro-reflective sensor with polarisation filter
Light type	red
Wavelength	650 nm
Laser class	1 (EN 60825, IEC 60825)
Beam diameter	3 mm
Range	200... 18000 mm
Ambient temperature	-10...+ 50°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 35 mA
Switching frequency	≤ 1kHz
Readiness delay	≤ 1 s
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 red flashing

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.

Excess gain curve

Excess gain in relation to the distance

