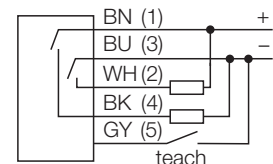


photoelectric sensor diffuse mode laser sensor QS30LDQ

- adjustable 30 ms time delay
- diffuse mode laser sensor with 400 mm sensing range
- laser class 1
- Male connector, M12x1, 5-pole

Wiring diagram

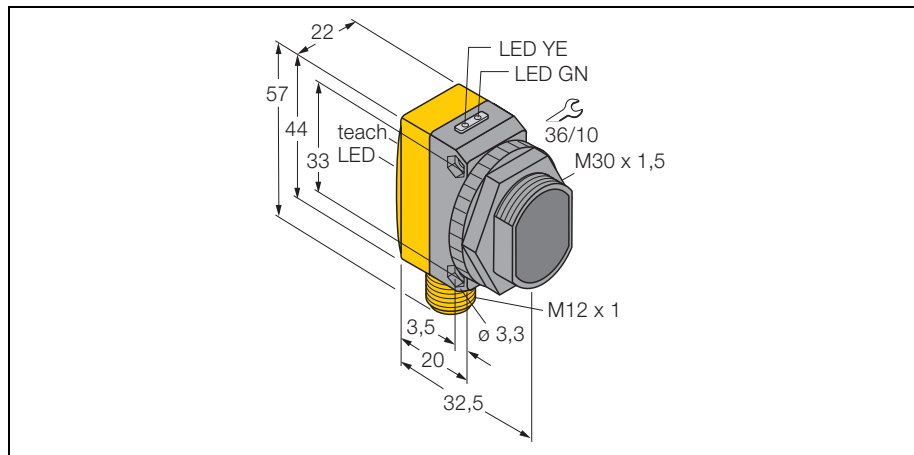
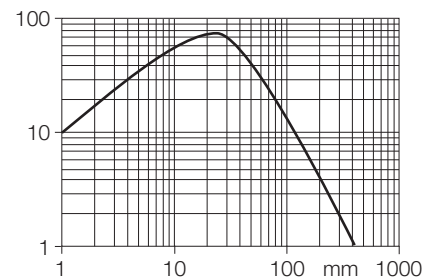


Functional principle

The emitter and receiver are incorporated in the same housing. The light reflection of the target is detected and causes 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



Type	QS30LDQ
Ident-No.	3070231
Operating mode	diffuse mode sensor
Light type	red
Wavelength	650 nm
Laser class	1 (EN 60825, IEC 60825)
Beam diameter	2 mm
Range	0... 400 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