

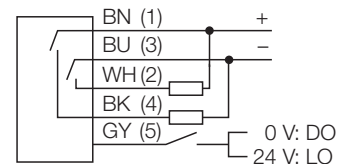
photoelectric sensor

diffuse mode sensor with fixed-field background suppression

QS30FF400Q

- fixed cut-off point at 400mm
- LED visible from all sides
- Male connector, M12x1, 5-pole

Wiring diagram

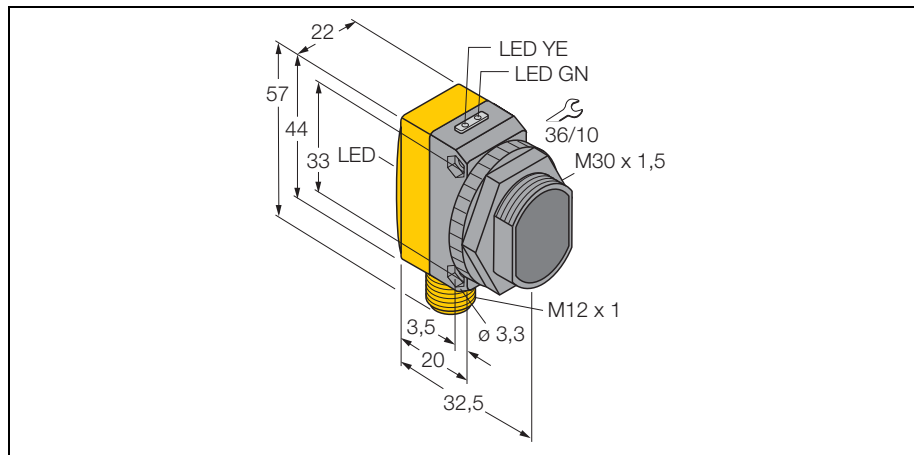
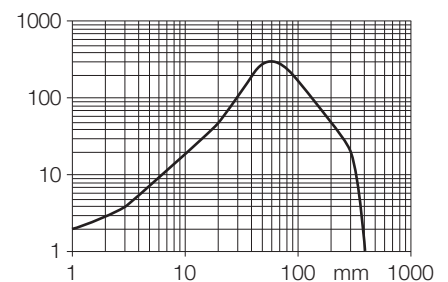


Functional principle

Diffuse mode sensors with background suppression operate with a single emitter and several receiver elements. The target position and the photoelectric structure of the sensor determine which of the receiving elements receives the most light. The sensor electronics determine whether the reflecting object is within or outside the measuring range. These sensors come with a fixed cut-off point.

Excess gain curve

Excess gain in relation to the distance



Type	QS30FF400Q
Ident-No.	3073089
Operating mode	diffuse mode sensor with fixed-field background suppression
Light type	red
Wavelength	680 nm
Range	0... 400 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