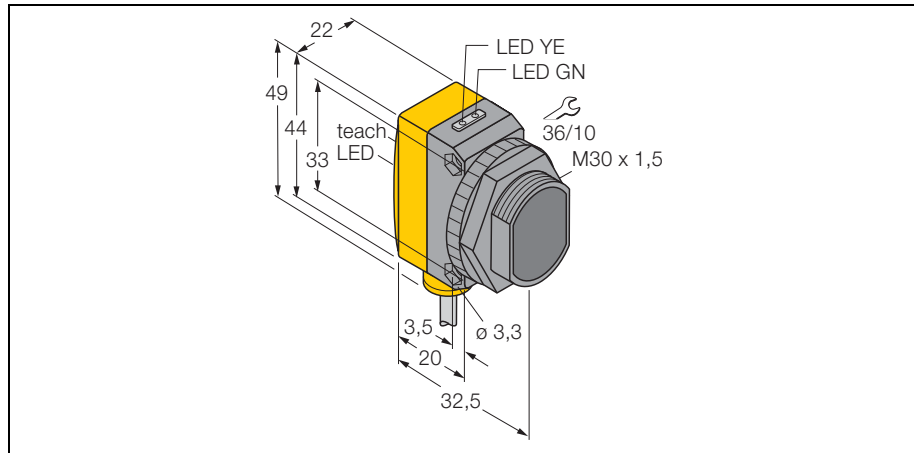
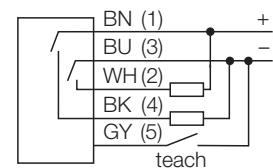


photoelectric sensor diffuse mode sensor QS30EDV



- Adjustable 30 ms time delay
- Adjustable standard (270 Hz) or high-speed response time (1.6 kHz)
- Crosstalk protection
- cable, 2m
- light or dark operation
- Operating voltage 10...30 VDC

Wiring diagram

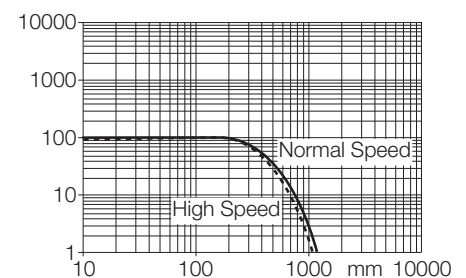


Functional principle

Identical to retro-reflective sensors, emitter and receiver circuitry are incorporated in the same housing of the diffuse mode sensors. However, diffuse mode sensors do not detect the interruption of the light beam but the reflection of the target. A target is detected if it reflects sufficient light back to the receiver. The switching distance of diffuse mode sensors thus largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance



Type	QS30EDV
Ident-No.	3076090
Operating mode	diffuse mode sensor
Light type	red
Wavelength	660 nm
Range	2... 1400 mm
Ambient temperature	-10...+ 55°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 150 mA
No-load current I ₀	≤ 25 mA
Switching frequency	≤ 270Hz
Readiness delay	≤ 100 ms
Housing	rectangular, QS30
Dimensions	35x 22x 49mm
Housing material	Plastic, ABS
Lens	plastic, acrylic
Electrical connection	cables
Cable length	2 m
Cable cross section:	5 x 0.5mm ²
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Excess gain indication	LED red flashing