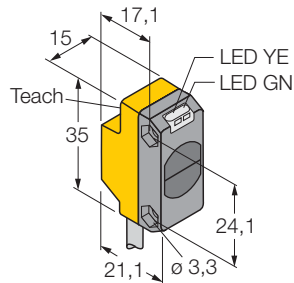


photoelectric sensor
diffuse mode sensor
QS18EP6DB

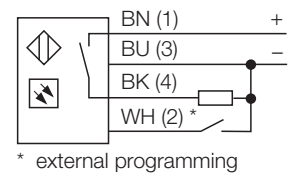
TURCK

Industrial
Automation



- Operating voltage 10...30 VDC
- rectangular
- alarm function
- LED visible from all sides
- sensitivity adjustment via teach button
- 2m cable

Wiring diagram

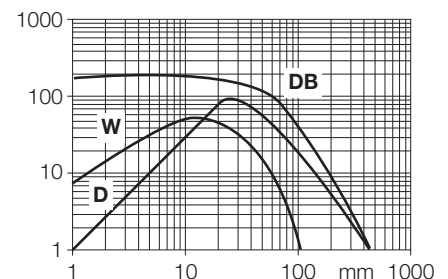


Functional principle

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. This type of sensor is especially suited for detection of transparent objects (diffuse mode sensor with or without background suppression or convergent mode sensors).

Excess gain curve

Excess gain in relation to the distance



Type	QS18EP6DB
Ident-No.	3068746
Operating mode	diffuse mode sensor
Light type	IR
Wavelength	940 nm
Range	0... 500 mm
Ambient temperature	-20...+ 70°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 100 mA
No-load current I ₀	≤ 35 mA
Output function	NO contact, PNP
Switching frequency	≤ 800Hz
Housing	rectangular, QS18
Dimensions	21.1x 15x 35mm
Housing material	Plastic, ABS
Lens	plastic, acrylic
Electrical connection	cables
Cable length	2 m
Cable cross section:	4 x 0.5mm ²
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing