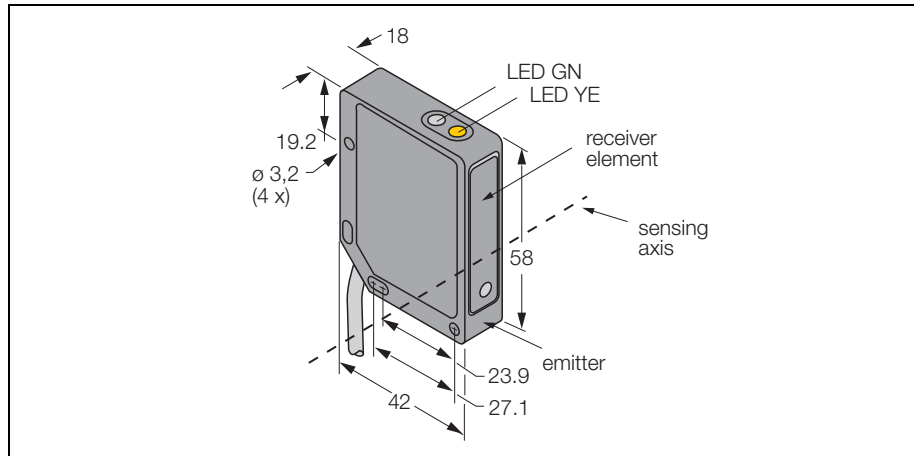


photoelectric sensor
diffuse mode sensor
QMT42VN6FF1000

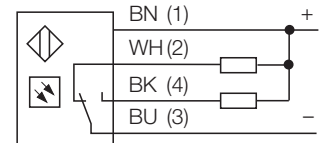
TURCK

Industrial
Automation



- Operating voltage 10...30 VDC
- NPN switching output
- connection cable, 2 m
- fixed background suppression at 1,000 mm

Wiring diagram

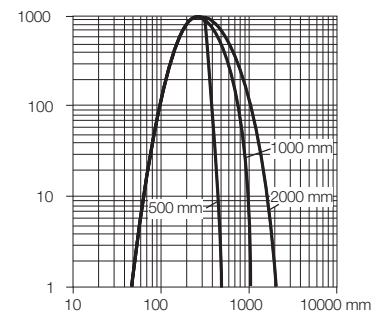


Functional principle

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	QMT42VN6FF1000
Ident-No.	3049231
Light type	IR
Wavelength	880 nm
Range	50... 1000 mm
Ambient temperature	-20...+ 55°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 100 mA
No-load current I_0	≤ 50 mA
Output function	NO/NC, NPN
Switching frequency	≤ 500Hz
Readiness delay	≤ 100 ms
Overcurrent release	>150 mA
Housing	rectangular, QMT42
Dimensions	42x 18x 58mm
Housing material	Metal, ZN, black lacquer
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