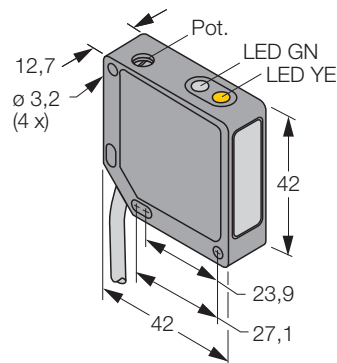


**photoelectric sensor
retro-reflective sensor
QM42VN6LP**

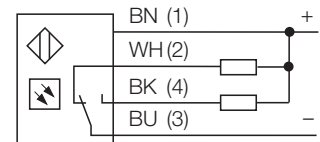
TURCK

Industrial
Automation



- light/dark operate
- connection cable, 2 m
- Operating voltage 10...30 VDC
- sensitivity adjustable via potentiometer

Wiring diagram

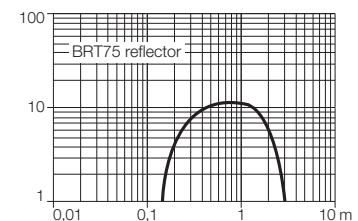


Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors incorporate some of the advantages of opposed mode sensors (good contrast and high excess gain). Further it is merely required to install and wire a single device. A smaller sensing range and susceptibility of devices without polarisation filter can be of disadvantage when shiny objects have to be detected.

Excess gain curve

Excess gain in relation to the distance



Type	QM42VN6LP
Ident-No.	3044902
Operating mode	retro-reflective sensor with polarisation filter
Light type	red
Wavelength	660 nm
Range	150... 3000 mm
Ambient temperature	-20...+ 70°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 100 mA
No-load current I ₀	≤ 30 mA
Output function	NO/NC, NPN
Switching frequency	≤ 500Hz
Readiness delay	≤ 100 ms
Readiness delay	≤ 100 ms
Overcurrent release	>150 mA
Housing	rectangular, QM42
Dimensions	42x 12.7x 42mm
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