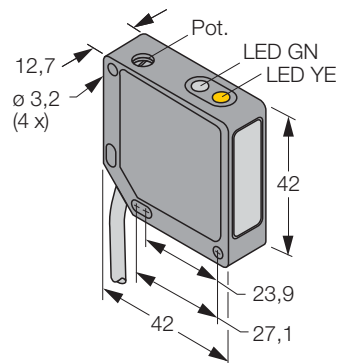


photoelectric sensor
diffuse mode sensor
QM42VN6AFV150

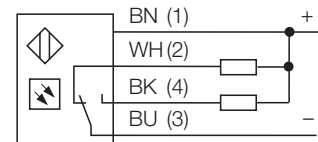
TURCK

Industrial
Automation



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

Wiring diagram

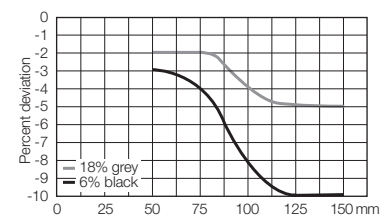


Functional principle

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 an adjustable cut-off point.

Deviation curve

Sensing range deviation curve



Type	QM42VN6AFV150
Ident-No.	3048694
Operating mode	diffuse mode sensor with adjustable background suppression
Light type	red
Wavelength	680 nm
Range	50... 150 mm
Ambient temperature	-20...+ 55°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