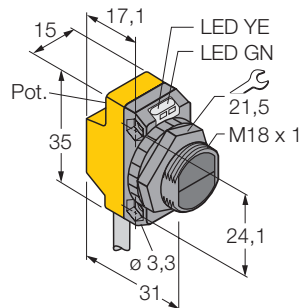


photoelectric sensor

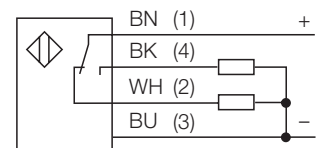
diffuse mode sensor with background suppression

QS18VP6FF50



- Operating voltage 10...30 VDC
- indication of insufficient excess gain
- LED visible from all sides
- light/dark operation
- cable, 2m

Wiring diagram

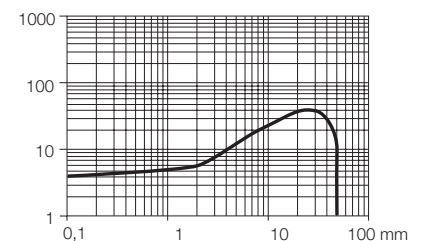


Functional principle

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	QS18VP6FF50
Ident-No.	3071640
Operating mode	diffuse mode sensor with fixed-field background suppression
Light type	red
Wavelength	660 nm
Max. sensing range [mm]	0... 50 mm
Ambient temperature	-20...+ 70 °C
Operating voltage	10... 30VDC
DC rated operational current	≤ 100 mA
No-load current I_0	≤ 32 mA
Short-circuit protection	yes / cyclic
Reverse polarity protection	yes
Output function	normally open / normally closed, pnp
Switching frequency	≤ 625 Hz
Readiness delay	≤ 100 ms
Housing	rectangular, QS18
Dimensions	31 x 15 x 35 mm
Housing material	plastic, ABS
Lens	plastic, acrylic
Connection	cables
Cable length	2 m
Cable cross section:	4 x 0.35mm ²
Degree of protection	IP67
Operating voltage display	LED green
Display switch state	LED yellow
Error indication	LED green flashing
Excess gain indication	LED yellow flashing