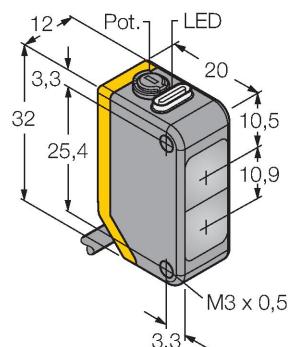


DO800-Q18-VP6X2

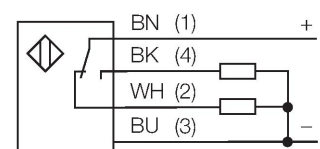
Photoelectric Sensor – Diffuse Mode Sensor



Features

- Cable, PVC, 2 m
- Protection class IP67
- LED, all-round visible
- Sensitivity adjusted via potentiometer
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

Wiring diagram



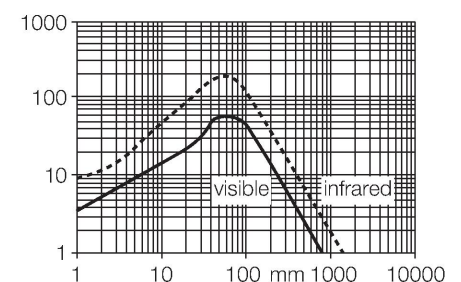
Technical data

Type	DO800-Q18-VP6X2
ID	7700096
Function	Diffuse mode sensor
Light type	Red
Wavelength	630 nm
Range	1...800 mm
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
No-load current	≤ 18 mA
Reverse polarity protection	yes
Output function	Complementary contact, PNP
Switching frequency	≤ 600 Hz
Readiness delay	≤ 100 ms
Design	Rectangular, Q20
Dimensions	20 x 12 x 32 mm
Housing material	Plastic, ABS
Lens	plastic, Acryl
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.35 mm ²
Ambient temperature	-20...+60 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, flashing
Excess gain indication	LED, yellow, flashing

Functional principle

Like retroreflective sensors, diffuse mode sensors also contain emitter and receiver circuitry in the same housing. However, diffuse mode sensors do not detect the interruption of the light barrier 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 object's reflectivity.

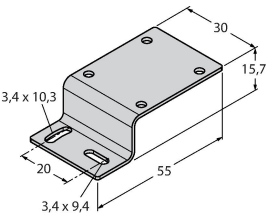
Excess gain curve
Excess gain in relation to distance



Accessories

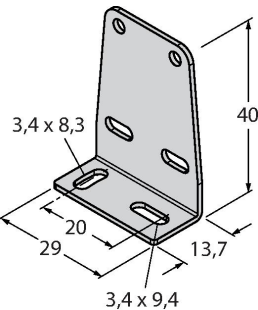
TMBQ18H 7700420

Mounting bracket, stainless steel, for Q18



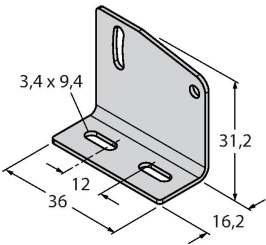
TMBQ18L 7700421

Mounting bracket, stainless steel, for Q18



TMBQ18LV 7700422

Mounting bracket, stainless steel, for Q18



TMBQ18U 7700423

Protective housing, stainless steel, for Q18

