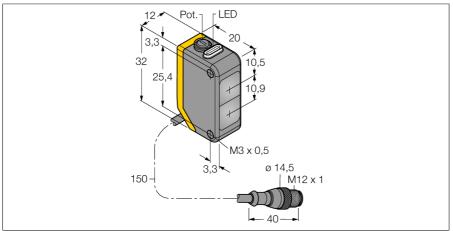
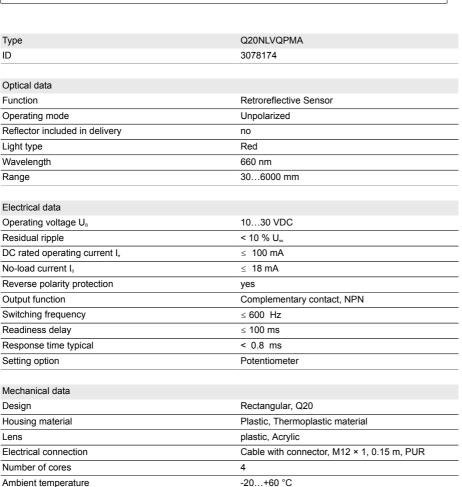


Photoelectric Sensor Retroreflective Sensor Q20NLVQPMA





IP67

LED, Green

LED, Yellow

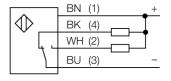
LED, green, Flashing

LED, yellow, flashing



- Cable with male end, M12 × 1, 4-pin, PVC, 150 mm
- Protection class IP67
- LED, all-round visible
- Sensitivity adjusted via potentiometer
- Operating voltage: 10...30 VDC
- NPN switching output, changeover

Wiring Diagram



Functional principle

Retroreflective sensors have an emitter and a receiver incorporated in the same housing. The light beam of the emitter is directed at a reflector which returns the light back to the receiver. An object is detected when it interrupts this light beam. Retroreflective sensors feature some of the advantages of opposed mode sensors, such as good contrast and high excess gain. Furthermore, only one device has to be installed and wired. However, devices without a polarizing filter have a smaller range and are more susceptible to disturbances caused by shiny objects.

Excess gain curve

Excess gain in relation to range

Excess Gain Curve

Protection class

Switching state

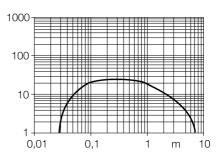
Error indication

Power-on indication

Excess gain indication



Tests/approvals
Approvals
CE





Accessories

Type code	Ident no.		Dimension drawing
SMBQ20H	3079041	Mounting bracket, stainless steel, horizontally mounted, for Q20	3,4 x 10,3 3,4 x 10,3 3,4 x 9,4 3,6 3,7 3,7 3,7 3,7 3,7 3,7 3,7 3,7
SMBQ20L	3079040	Mounting bracket, stainless steel, rectangular, for Q20	
			3,4 x 8,3 40 40 29 13,7 3,4 x 9,4
SMBQ20LV	3079042	Mounting bracket, stainless steel, rectangular, for Q20	
			3,4 x 9,4 31,2 36 12 16,2
SMBQ20U	3079043	Protective housing, stainless steel, for Q20	3,2 x 12,6 (2x) 0 25 23

Function accessories

Type code	Ident no.		Dimension drawing
BRT-84	3058979	Round reflector, reflection coefficient 1.4, material acrylic, ambient temperature -20 +60 °C	7.4