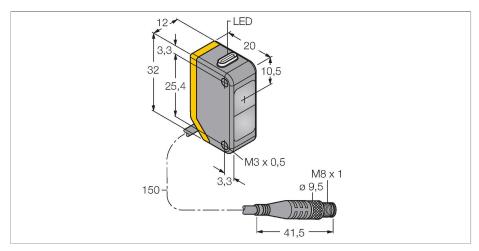


## Q20ELQ Photoelectric Sensor – Opposed Mode Sensor (Emitter)



## Technical data

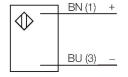
Туре	Q20ELQ	
ID no.	3078226	
Optical data		
Function	Opposed mode sensor	
Operating mode	Emitter	
Light type	IR	
Wavelength	850 nm	
Range	020000 mm	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	< 10 % U <sub>ss</sub>	
No-load current	≤ 18 mA	
Reverse polarity protection	yes	
Readiness delay	≤ 100 ms	
Mechanical data		
Design	Rectangular, Q20	
Dimensions	20 x 12 x 32 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Acrylic	
Electrical connection	Cable with connector, M8 × 1, 0.15 m, PVC	
Number of cores	4	
Ambient temperature	-20+60 °C	
Protection class	IP67	
Power-on indication	LED, Green	
Excess gain indication	LED	



## **Features**

- Cable with male end, PVC, M8 × 1, 4-pin, 150 mm
- ■Protection class IP67
- ■LED all-round visible
- Operating voltage: 10...30 VDC

## Wiring diagram



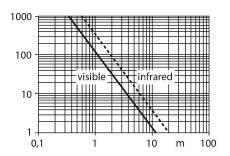
## Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions.

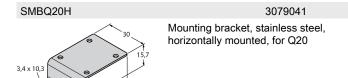
## Technical data

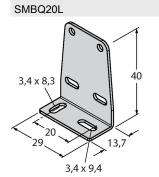
# Tests/approvals Approvals CE

## **Excess Gain Curve**

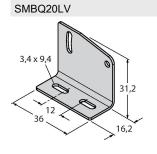


## Accessories





3079040 Mounting bracket, stainless steel, rectangular, for Q20



Mounting bracket, stainless steel, rectangular, for Q20

3079042



Protective housing, stainless steel, for Q20

3079043

## Accessories

Dimension drawing	Type	ID no.	
M8 x 1	PKW4M-2/TEL	6625067	Connection cable, female M8, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
M8 x 1 o 9.6  L	PKG4M-2/TEL	6625061	Connection cable, female M8, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com