



1) Active surface 2) Light reception/Limit range

- Photoelectric sensor
- Series Q08M
- LED, red light
- up to 100 mm



General attributes

Approvals / Conformity	cULus CE
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Indicator	Light receipt - LED YE Limit range - LED YE, flash.
Polarity reversal protected	yes
Series	Series Q08M
Short circuit protected	yes

Electrical attributes

Connection type	Connector
Eff. operating current I _e	100 mA
Eff. operating voltage U _e DC	24.0 V
Electrical version	DC, direct current
Load capacitance max. (at U _e)	0.10 µF
No-load current max. I _o at U _e	10 mA
Operating voltage U _B max. DC [V]	30.0 V
Operating voltage U _B min. DC [V]	9.6 V
Rated insulation voltage U _i	75 V DC
Ripple max. (% of U _e)	10 %
Switching freq. f max. (at U _e)	400 Hz
Switching function	NO
Switching output	PNP (1x)
Turn on time t _{on} max.	1.25 ms
Voltage drop U _d max. (at I _e)	2.5 V

Mechanical attributes

Ambient temperature T _a max.	60 °C
Ambient temperature T _a min.	-10 °C
Connector type	M8x1-S49

Detection range S _d	0...55 mm
Eff. operating distance S _r	55 mm
Housing material	GD-Zn
Length 1	8.0 mm
Length 2	8.0 mm
Length 3	59.0 mm
Minimum operating distance	0 mm
Mounting type	Screw M3
Range S _n	S _n = 55 mm
Sensing face material	PMMA
Style	Block, 90° connection
Surface protection	Nickel-plated

Optical attributes

LED group acc. IEC 62471	Exempt group
Light type	LED, red light
Principle of optical operation	Light scanner, energetic
Switching function, optical	NO: light-on
Wavelength	640 nm

Additional text

Against line-induced noise an external protection is recommended e.g. capacitor (≥20nF) to ground (please refer to "Information EMC protection" document No. 864234).
Reference object (target): Gray card, 100 x 100

90 % remission, axial approach.
The sensor is functional again after the overload has been eliminated.
For additional information, refer to user's guide.

Order accessories separately.
Only for NFPA 79 applications (machines with a supply voltage of maximum 600 volts).
Device shall be connected only by using any R/C (CYJV2) cord, having suitable ratings.

