

1) Power, 2) Output function, 3) Delay time, 4) Sensitivity



Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Optical window sensor
Series	A
Style	Frame

Display/Operation

Adjuster	Potentiometer 270° (2x)
Display	Output function dynamic - LED red LED green: Power
Setting	Delay time Sensitivity dynamic

Electrical connection

Connection	Connector, M8x1-Male, 3-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.1 µF
No-load current I _o max. at Ue	75 mA
Operating voltage U _b	10...30 VDC
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	200 mA
Rated operating voltage U _e DC	24 V
Ready delay t _v max.	100 ms
Residual current I _r max.	50 µA
Ripple max. (% of U _e)	15 %
Switching frequency	100 Hz Dynamic
Turn-off delay t _{off} max.	0.4 ms dyn.
Turn-on delay t _{on} max.	0.4 ms dyn.
Utilization category	DC -13
Voltage drop U _d max. at I _e	2.5 V

Environmental conditions

Ambient temperature	-10...55 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, 0.5 mm, 3x5 min 55 Hz, 0.5 mm, 3x30 min
Protection degree	IP67

Material

Housing material	Aluminum, anodized, black
Material sensing surface	PMMA
Surface protection	anodized, black

Mechanical data

Active window (PL x AL)	80 x 160 mm
Dimension	18 x 130 x 220 mm
Mounting	Screw M6
	Screw M4

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light type	Infrared
Principle of optical operation	Through-beam sensor
Smallest part typ.	1.0 mm dynamic
Switching function, optical	dark-on
Wave length	880 nm

Output/Interface

Duration of time function	T = 5...300 ms
Switching output	NPN normally open (NO)
Time function	Turn-off delay dynamic

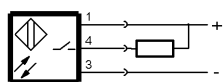
Remarks

Order accessories separately.
 For additional information, refer to user's guide.
 Reference object (target): Steel ball, diameter 2.0 mm, lateral approach.
 The sensor is functional again after the overload has been eliminated.

Connector Drawings



Wiring Diagrams



Opto Symbols

