

1) rotatable 180°, 2) Output function, 3) stability/error, 4) Fail/short circuit/error, 5) Sensitivity, light/dark



Basic features

Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Fork sensor
Series	21
Style	Fork Connection can be rotated

Display/Operation

Adjuster	button
Display	Fail - LED red Output function- LED yellow Ready - LED green Error - LED red+green, flashing Short circuit - LED red, flashing
Setting	Sensitivity Light-on/dark-on

Electrical connection

Connection	Connector, M8x1-Male, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 μ F
No-load current I ₀ max. at Ue	55 mA
Operating voltage U _b	10...30 VDC
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	100 mA
Rated operating voltage U _e DC	24 V
Ripple max. (% of Ue)	8 %
Switching frequency	25000 Hz
Turn-off delay t _{off} max.	0.02 ms
Turn-on delay t _{on} max.	0.02 ms
Utilization category	DC-13
Voltage drop U _d max. at I _e	2 V

Environmental conditions

Ambient temperature	-20...60 °C
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP65

Interface

Switching output	NPN normally open/normally closed (NO/NC) PNP normally open/normally closed (NO/NC)
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Material

Housing material	Aluminium, Anodized
Material sensing surface	Glass
Surface protection	Anodized

Remarks

Order accessories separately.
The sensor is functional again after the overload has been eliminated.
Reference object (target): Steel plate, 50 x 50, thickness 0.5 mm, lateral approach.
For additional information, refer to user's guide.

Mechanical data

Dimension	20 x 26 x 90 mm
Fork opening	2 mm
Mounting part	Screw M4

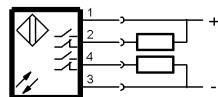
Optical features

Ambient light max.	10000 Lux
Beam characteristic	Divergent
Light spot size	0.5 x 4 mm Light exit
Light type	Infrared
Principle of optical operation	Through-beam sensor
Smallest part typ.	1.00 mm
Switching function, optical	dark-on/light-on
Wave length	880 nm

Connector Drawings



Wiring Diagrams



Opto Symbols

