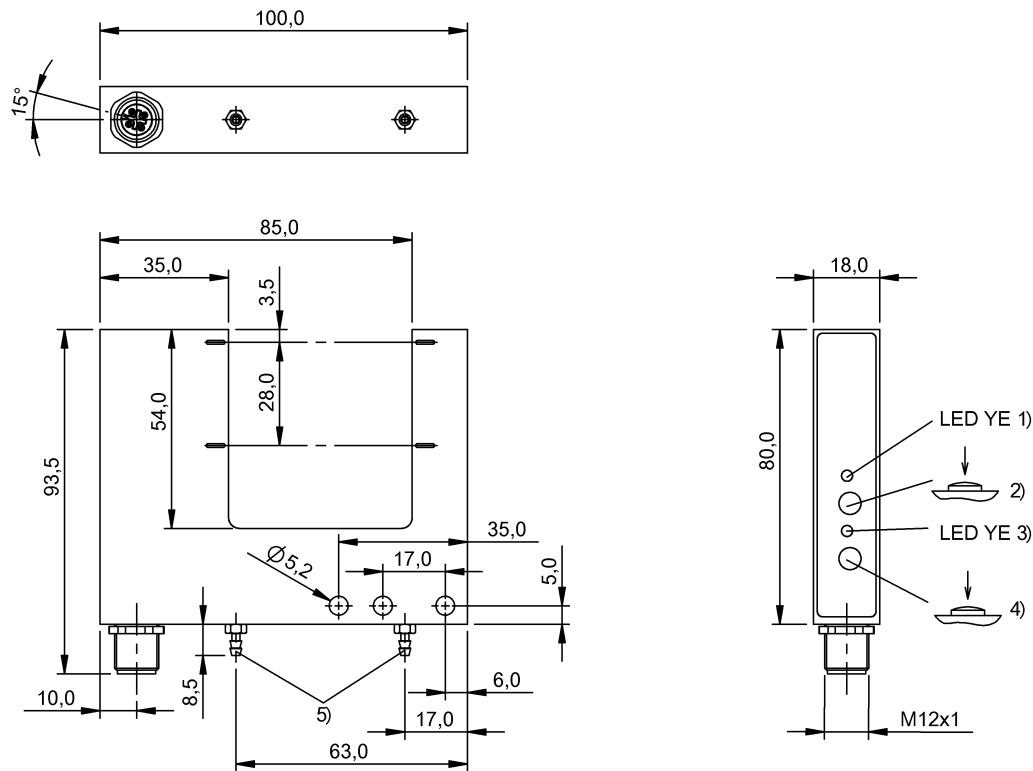




1) Q1 active / error, 2) Q1: recvr., light/dark, 3) Q2 active / error, 4) Q2: recvr., light/dark, 5) Pneumatics connection PK-3



Basic features

Additional features	Contamination compensation to up to 10% loss in intensity.
Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Fork sensor
Series	C
Style	Fork Straight connection

Display/Operation

Adjuster	Key (2x)
Display	Output 1 active - LED yellow Output 2 active - LED yellow Error - 2 x LED yellow, flashing
Setting	Sensitivity Light-on/dark-on

Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	2.2 µF
No-load current Io max. at Ue	30 mA
Operating voltage Ub	18...30 VDC
Rated operating current Ie	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	100 ms
Ripple max. (% of Ue)	10 %
Switching frequency	500 Hz
Turn-off delay toff max.	1 ms
Turn-on delay ton max.	1 ms
Utilization category	DC -13
Voltage drop Ud max. at Ie	1 V

Environmental conditions

Ambient temperature	-5...55 °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	2x PNP normally open/normally closed (NO/NC)
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Material

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

Mechanical data

Dimension	18 x 100 x 93.5 mm
Fork opening	50 mm
Mounting part	Screw M5

Remarks

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.
Order accessories separately.
Do not press key using a pointed tool.

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Divergent
LED group per IEC 62471	Exempt Group
Light beams, number	10
Light spot size	3 x 28 mm Light exit
Light type	LED, red light
Principle of optical operation	Through-beam sensor
Special optical feature	Light array
Switching function, optical	dark-on/light-on
Wave length	633 nm

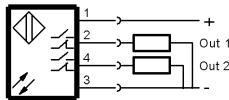
Range/Distance

Active length AL 1	28 mm
Hysteresis H max.	0.4 mm
Repeat accuracy lateral max.	150 µm
Resolution	≤ 0.08 mm

Connector Drawings



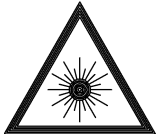
Wiring Diagrams



Opto Symbols



Warning Symbols



LED light – DO NOT LOOK INTO THE BEAM!

Exempt Group per IEC 62471:2006-07