

1) Optical axis, 2) Teach-in switchpoint, 3) Output function normally open, 4) Output function normally closed



### Basic features

Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Fork sensor
Series	D
Style	Fork Straight connection

### Display/Operation

Adjuster	button
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### Electrical connection

Connection	Connector, M8x1-Male, 4-pin
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Short-circuit protection	yes

### Electrical data

No-load current $I_0$ max. at $U_e$	40 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
Switching frequency	10000 Hz
Turn-off delay $t_{off}$ max.	0.05 ms
Turn-on delay $t_{on}$ max.	0.05 ms
Voltage drop $U_d$ max. at $I_e$	2.5 V

### Environmental conditions

Ambient temperature	-10...60 °C
IP rating	IP50

### Interface

Switching output	PNP/NPN NO/NC push-pull
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Material

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

Mechanical data

Dimension	15 x 35 x 88.5 mm
Fork opening	3 mm
Mounting part	Screw M4

Optical features

Ambient light max.	3000 Lux
LED group per IEC 62471	Exempt Group
Light type	Infrared
Principle of optical operation	Through-beam sensor
Special optical feature	Label detection
Switching function, optical	dark-on/light-on
Wave length	880 nm

Range/Distance

Hysteresis H max.	0.4 mm
Repeat accuracy lateral max.	100 µm
Resolution	≤ 1.00 mm

Remarks

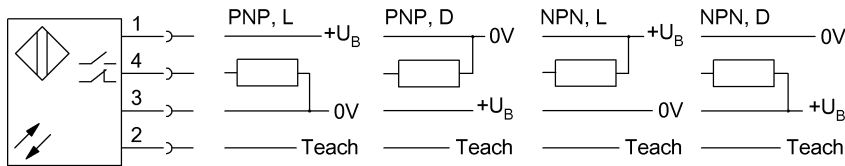
Order accessories separately.  
For additional information, refer to user's guide.  
The sensor is functional again after the overload has been eliminated.  
Reference object (target): Steel plate, 50 x 50, thickness 0.5 mm, lateral approach.

Connector Drawings



Wiring Diagrams

4(20mA)



Opto Symbols

