

OG800376

OPTICAL SENSORS • FORK LIGHT BARRIERS

Special design of through-beam sensor. Transmitter and receiver are located in the fork or angular limbs and are perfectly aligned to each other.



MECHANICAL DATA

Ambient temperature-10 °C 60 °CDegree of protection (IP)IP67Fork depth55 mmFork kight barrier designFurcateFork width80 mmHousing designCuboidHousing materialZinc die-castMaterial of optical surfacePlasticReflector included in the scope of deliveryNoSensor height100 mmSensor width80 mmELECTRICAL DATANoAnalogue output 0 MA 20 mANoAnalogue output 0 V 10 VNoAnalogue output 0 V 10 VNoAnalogue output 1 V +10 VNoAnalogue output 1 N 20 mANoAnalogue output 0 V 10 VNoAnalogue output 0 T 20 mANoAnalogue output 0 N 20 mANoMax. switching distance80 mmNo-load current30 mANoutput current30 mANumber of pins3Operating voltage10 V 30 VPre-failure messageNoRelative repeat accuracy0.02 mmRelative repeat accuracy0.02 mmRelative repeat accuracy0.02 mmResponse time1.67 msRepeatability +/-20 µmResponse time1.67 msRepeatability protectionY	MICHANICAL DATA	
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Reverse polarity protection Yes		
	Reverse polarity protection	Yes

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IPF ELECTRONIC

ELECTRICAL DATA

Scanning function	Light-/dark-on mode
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Setting procedure	Manual adjustment
Short-circuit-proof	Yes
Suitable for safety functions	No
Switching frequency	300 Hz
Type of electrical connection	Connector M8
Type of switching function	Normally closed contact/normally open con- tact
Type of switching output	PNP
Type of the forked light barrier	Increased soiling reserve
Voltage drop	2.8 V
Voltage type	DC
With communication interface, analog	No
With communication interface, AS-Interface	No
With communication interface, CANOpen	No
With communication interface, DeviceNet	No
With communication interface, Ethernet	No
With communication interface, INTERBUS	No
With communication interface, PROFIBUS	No
With communication interface, RS-232	No
With communication interface, RS-422	No
With communication interface, RS-485	No
With communication interface, SSD	No
With communication interface, SSI	No
With monitoring function of downstream devices	No
With other analog output	No
With restart lock	No
With time function	No

OPTICAL DATA

Laser protection class	None
Light beam form	Point
Light source	Infrared light
Min. object size	3 mm
Resolution	3000 μm
Wavelength of the sensor	880 nm

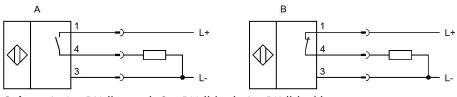
OTHER DATA

Feeding technology	
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Yes

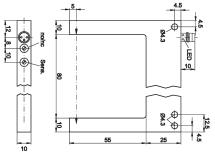


CONNECTION



Colors: A: 1 = BN (brown), 3 = BU (blue), 4 = BK (black) B: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)**Functions:** A: 1 = L+, 3 = L-, 4 = PNP NO B: 1 = L+, 3 = L-, 4 = PNP NC

DIMENSIONAL DRAWING



INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!





SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!