

OG050571

Optical sensors • Forked light barriers

sensor optical, fork, 25x10x45mm, fork width 5mm, 10-30V DC, 1x PNP/NPN NC/NO, IO-Link, Connector M8 3pin, IP67, Aluminum+Plastic, Infrared light, 10kHz pulsed, Manual adjustment



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

Electrical features

Response/decay time	0.05ms
Number of switching outputs	1
Resolution	0.1mm
Type of the forked light barrier	Standard
Type of switching function	Normally closed contact/normally open contact
Type of electrical connection	Connector M8
Type of switching output	PNP/NPN
Rated switching current	100mA
Setting procedure	Potentiometer
Absolute hysteresis	0.1mm
Short-circuit protection	Yes
No-load current	30mA
Number of pins	3
Repeatability +/-	20µm
Switching frequency	10000Hz
Protection class	III
Voltage drop	1.5V
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Decay time	0.05ms
Absolute repeat accuracy	0.02mm
Operating voltage (DC)	10 - 30V
Output functions	Switching point

Mechanical features

Design	Cuboid
Fork light barrier design	Furcate
Width	45mm
Fork depth	17mm
Fork width	5mm
Height	25mm
Length	10mm
Degree of protection (IP)	IP67
Active area material of sensor	Plastic
Housing material	Aluminum
Ambient temperature	-25 - 60°C

Optical features

Light source	Infrared light
Light beam form	Point
Min. object size	0.1mm
Light wavelength of the transmitter diode	880nm
Wavelength of the sensor	880nm
Pulsed light source	Yes

Other features

Feeding technology	Yes
Ambient temperature	-25 - 60°C

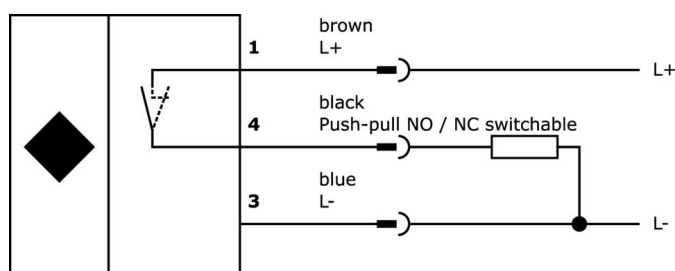
Classification

ETIM 8	EC002720 Fork light barrier
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More

IPF Product Group	110 fork / angular light barriers
packaging dimensions	160 x 150 x 10 mm
gross weight	25 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Installation



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

Disposal



Safety warnings

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

Never use these devices in applications where the safety of a person depends on their functionality.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.

Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: www.ipf-electronic.com

Dimensional drawing

