

OG50037E

Optical sensors • Forked light barriers

sensor optical, fork, 70x10x80mm, fork width 50mm, 10-35V DC, 1x PNP NC/NO, Connector M8 4pin, IP67, Zinc die-cast+Plastic, Red light, 3kHz pulsed, Teach in, remote-teach



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	0.17ms
Number of switching outputs	1
Resolution	0.3mm
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
Rated switching current	200mA
Setting procedure	Teach in, remote-teach
Absolute hysteresis	0.1mm
Short-circuit protection	Yes
No-load current	30mA
Number of pins	4
Repeatability +/-	100µm
Switching frequency	3000Hz
Protection class	III
Voltage drop	2V
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Decay time	0.17ms
Absolute repeat accuracy	0.1mm
Operating voltage (DC)	10 - 35V
Output functions	Switching point

Mechanical features

Design	Cuboid
Fork light barrier design	Furcate
Width	80mm
Fork depth	55mm
Fork width	50mm
Height	70mm
Length	10mm
Degree of protection (IP)	IP67
Active area material of sensor	Plastic
Housing material	Zinc die-cast
Ambient temperature	-10 - 60°C

Optical features

Light source	red light
Light beam form	Point
Min. object size	0.3mm
Light wavelength of the transmitter diode	660nm
Wavelength of the sensor	660nm
Pulsed light source	Yes

Other features

Feeding technology	Yes
Ambient temperature	-10 - 60°C

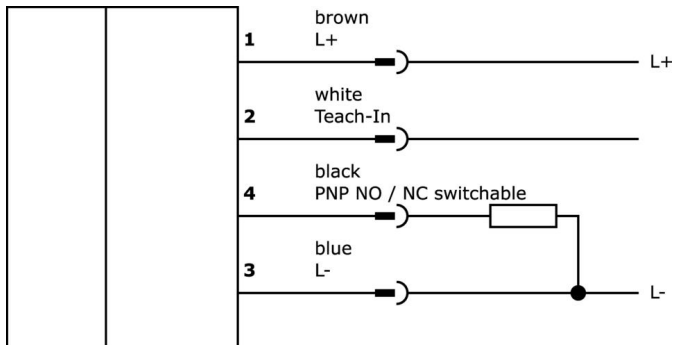
Classification

ETIM 8	EC002720 Fork light barrier
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More

IPF Product Group	110 fork / angular light barriers
packaging dimensions	123 x 77 x 25 mm
gross weight	120 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
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.

Dimensional drawing

