

OG100571

Optical sensors • Forked light barriers

sensor optical, fork, 25x10x45mm, fork width 10mm, 10-30V DC, 1x PNP/NPN NC/NO, IO-Link, Connector M8 3pin, IP67, Zinc die-cast+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	0.05 ms
Number of switching outputs	1
Resolution	0.2 mm
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	100 mA
Setting procedure	Potentiometer
Absolute hysteresis	0.1 mm
Short-circuit protection	Yes
No-load current	30 mA
Number of pins	3
Repeatability +/-	20 µm
Switching frequency	10000 Hz
Protection class	III
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Decay time	0.05 ms
Absolute repeat accuracy	0.02 mm
Supported communication interface	IO-Link
Operating voltage (DC)	10 - 30 V
Output functions	Switching point

Mechanical features

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

Optical features

Light source	Infrared light
Light beam form	Point
Min. object size	0.2 mm
Wavelength of the sensor	880 nm
Pulsed light source	Yes

Other features

IO-Link version	V1.1
Feeding technology	Yes

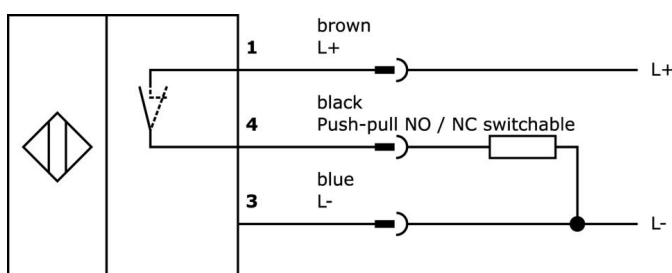
Classification

ETIM 8	EC002720 Fork light barrier
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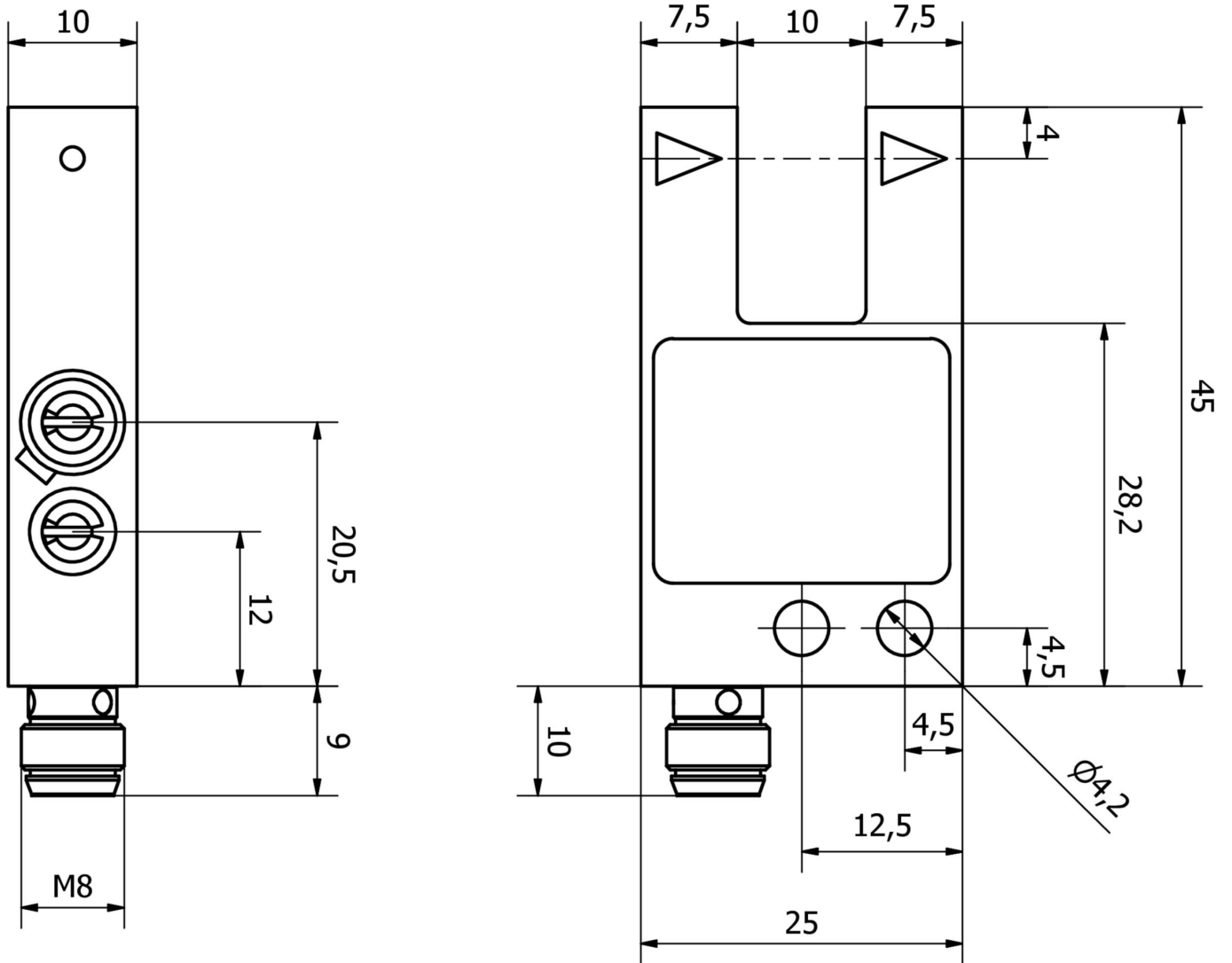
More

IPF Product Group	110 fork / angular light barriers
packaging dimensions	160 x 150 x 10 mm
gross weight	34 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

VK200071



Connection cable, 2m, M8 Female (socket) 3pin Angular, Free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 60V, -40-90°C, IP67, TPU, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK200075



Connection cable, 2m, M8 female (socket) 3pin Straight, free conductor end, 3x0.34mm², PUR (Polyurethane), Ø4.3mm, 60V, -30-90°C, IP67, suitable for trailing chain and torsion resistant, oil and cooling lubricants, welding area, Silicone-free

VY000004



DC power supply, sensor tester, 120x26x72mm, 18V, 0.04A, Spring clamp connection 4pin, IP20, Plastic

NG530002



DC power supply, single-phase, 99x114x22mm, 24V, 0.1A, Number of relay outputs 2, 100-264V AC 50Hz, 100-264V AC 60Hz, Screw connection, IP20, Plastic, Stabilized, Output voltage, pulsed

AY98C293



accessories sensor, Teflon cap, M8x1 5long, Polytetrafluorethylene (PTFE)

VL300138



Logic module, 26x136x30mm, OR, 2x4fold, 10-30V DC, sensor side M8 Female (socket) 3pin, control side M12 Male (connector) 12pin, IP67, Plastic

VL300148



Logic module, 26x136x30mm, AND, 4fold, 10-30V DC, sensor side M8 Female (socket) 3pin, control side M12 Male (connector) 12pin, IP67, Plastic, Signal change logic

VK003070



Cable socket, Angular, Suitable for self-assembly, Soldering connection, Ø3.5-5mm, 4A, 60V, -40-85°C, M8 Female (socket) 3pin, IP67, Brass

VK003074



Cable socket, Straight, Suitable for self-assembly, Soldering connection, Ø3.5-5mm, 4A, 60V, -40-85°C, M8 Female (socket) 3pin, IP67, Brass

You can find further accessories on our homepage



Installation

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



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

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.

/ 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