

OG300576

Optical sensors • Forked light barriers

sensor optical, fork, Increased soiling reserve, 50x10x60mm, fork width 30mm, 10-30V DC, 1x PNP/NPN NC/NO, IO-Link, Connector M8 3pin, IP67, Zinc die-cast+Plastic, Infrared light, 0.2kHz 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	2.5 ms
Number of switching outputs	1
Resolution	2 mm
Type of the forked light barrier	Increased soiling reserve
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
Short-circuit protection	Yes
No-load current	30 mA
Number of pins	3
Repeatability +/-	30 µm
Switching frequency	200 Hz
Protection class	III
Voltage drop	1 V
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Decay time	2.5 ms
Absolute repeat accuracy	0.03 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	60 mm
Fork depth	35 mm
Fork width	30 mm
Height	50 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	2 mm
Wavelength of the sensor	860 nm
Pulsed light source	Yes

Other features

IO-Link version	V1.1
Feeding technology	Yes

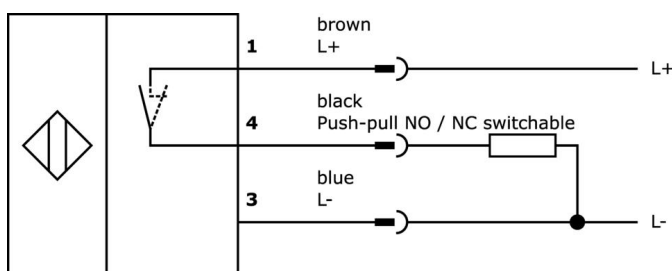
Classification

ETIM 8	EC002720 Fork light barrier
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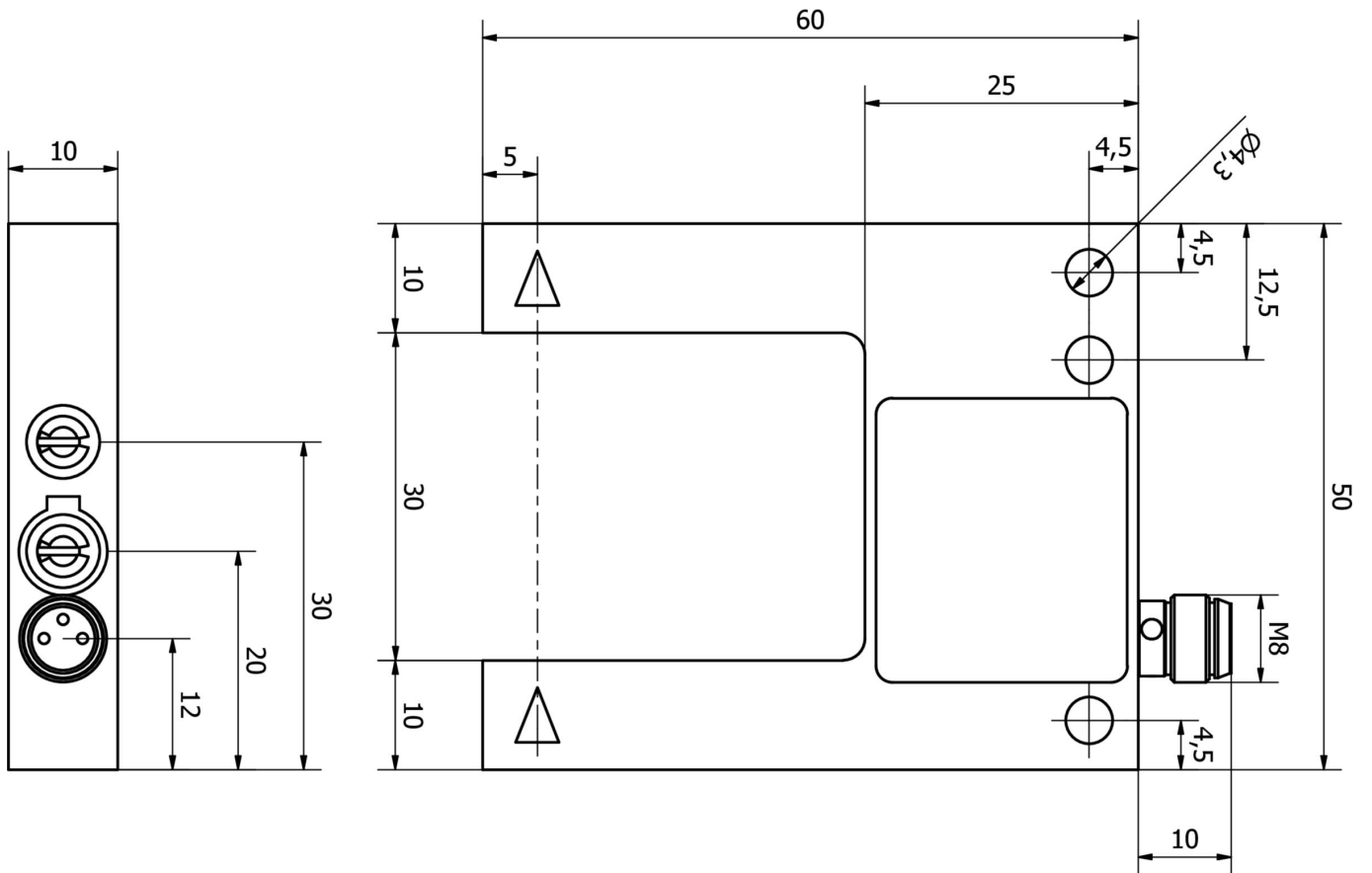
More

IPF Product Group	110 fork / angular light barriers
packaging dimensions	160 x 150 x 10 mm
gross weight	70 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

VK000036



Adaption, M8 Female (socket)
3pin Straight, M12 Male
(connector) 3pin Straight, 24V, -
25-85°C, IP67, Oil and cooling
lubricants, Welding area

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

AO000095



accessories optical, Cleaning air
nozzle, Metal

AO000100



accessories optical, Cleaning air
nozzle, 60mm long, Metal

VY000005



IO-Link master, 41x24x67mm, IO-
Link, M12, With USB interface

VY030170



time stage, Turn-off delay, 0-0.15s,
10-35V DC, 1x NO, M8 3pin 0.3m,
IP67, Plastic, Potentiometer

VY030174



time stage, Turn-off delay, 0-0.15s,
10-35V DC, 1x NO, M8 3pin 0.3m,
IP67, Plastic, Potentiometer

VK000038



Adaption, M8 Female (socket)
3pin Straight, M8 Male
(connector) 4pin Straight, 24V, -
25-85°C, IP67, Oil and cooling
lubricants, Welding area

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