

PG500570

Laser sensors • Forked light barrier

Sensor laser, fork, 70x10x80mm, fork width 50mm, 10-30V DC, 1x PNP/NPN NC/NO, IO-Link, M8 plug connector 3-pin, IP67, zinc diecast+glass, red light, 5kHz pulsed, manual setting



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	0.1 ms
Number of switching outputs	1
Resolution	0.05 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	Manual adjustment
Short-circuit protection	Yes
No-load current	30 mA
Number of pins	3
Repeatability +/-	10 µm
Switching frequency	5000 Hz
Protection class	III
Voltage drop	2 V
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Decay time	0.1 ms
Absolute repeat accuracy	0.01 mm
Supported communication interface	IO-Link
Operating voltage (DC)	10 - 30 V

Mechanical features

Design	Cuboid
Fork light barrier design	Furcate
Width	80 mm
Fork depth	35 mm
Fork width	50 mm
Height	70 mm
Length	10 mm
Degree of protection (IP)	IP67
Active area material of sensor	glass
Housing material	Zinc die-cast
Ambient temperature	-25 - 60 °C

Optical features

Laser class	Class 1
Light source	red light
Light beam form	Point
Min. object size	0.05 mm
Wavelength of the sensor	655 nm
Pulsed light source	Yes

Other features

Feeding technology	Yes
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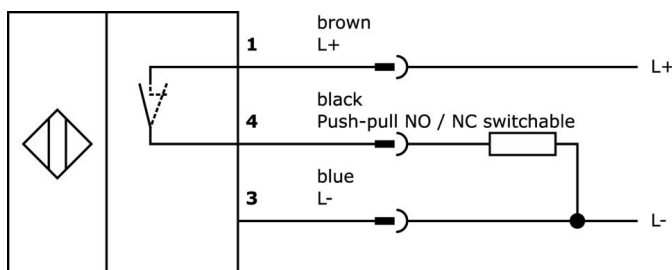
Classification

ETIM 8	EC002720 Fork light barrier
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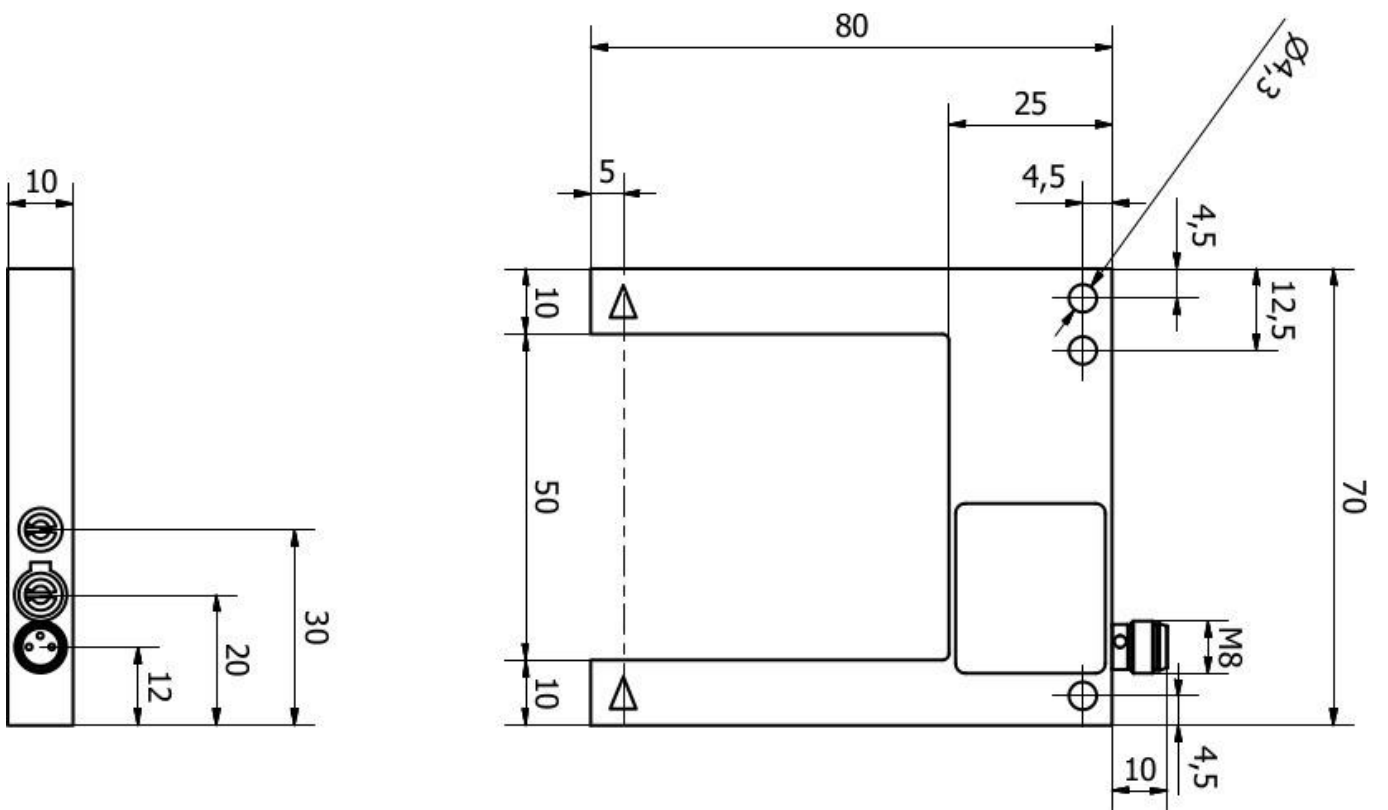
More

IPF Product Group	170 laser fork/angular light barriers
packaging dimensions	160 x 150 x 10 mm
gross weight	98 g
Customs tariff number	85365019
WEEE number	40951076
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

AY98C293



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

VK030F72



Connection cable, 0.3m, M8
socket 3-pin angular, M8
connector 3-pin straight, 3x0.
34mm², PUR (polyurethane), IP67,
LED, suitable for trailing chain and
torsion resistant, oils and cooling
lubricants, welding area, silicone-
free

VK060F72



Connection cable, 0.6m, M8
socket 3-pin angular, M8
connector 3-pin straight, 3x0.
34mm², PUR (polyurethane), IP67,
LED, suitable for trailing chain and
torsion resistant, oils and cooling
lubricants, welding area, silicone-
free

VK030F70



Connection cable, 0.3m, M8
socket 3-pin angular, M8
connector 3-pin straight, 3x0.
34mm², PUR (polyurethane), 60V,
IP67, suitable for trailing chain and
torsion resistant, oils and cooling
lubricants, welding area, silicone-
free

VK030F74



Connection cable, 0.3m, M8
socket 3-pin straight, M8
connector 3-pin straight, 3x0.
34mm², PUR (polyurethane), 60V,
IP67, suitable for trailing chain and
torsion resistant, oils and cooling
lubricants, welding area, silicone-
free

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

VK000036



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

VK200271



Connection cable, 2m, M8 Female
(socket) 3pin Angular, Free
conductor end, 3x0.34mm², PUR
(Polyurethane), Ø4.3mm, -30-
90°C, IP67, With LED display,
Suitable for trailing chain and
torsion resistant, Oil and cooling
lubricants, Welding area, Silico...

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