

# OH400570

## Optical sensors • Frame light barriers

Sensor Optical, frame 40x49, 109x70x15mm, static and dynamic, resolution 1mm, 18-30V DC, PNP/NPN NC/NO, M8 plug connector 3-pin, IP67, aluminum+plastic, With time function



Optoelectronics frame light barriers and ring sensors work according to the throughbeam light barrier principle. The housing contains a large number of transmitter and receiver elements that form a light curtain and thus detect and record a wide variety of objects. Application examples for these systems are ejection checks on presses, presence checks and length measurements of wires or pipes.

### Electrical features

Response/decay time	0.05 ms
Display	LED display
Type of switching function	Normally closed contact/normally open contact
Type of electrical connection	Connector M8
Type of switching output	Push-pull
Rated switching current	100 mA
Setting procedure	Potentiometer
Pulse stretching	0 - 150 ms
Short-circuit protection	Yes
No-load current	40 mA
Number of pins	3
Reaction time	0.05 ms
Protection class	III
Voltage drop	2 V
Reverse polarity protection	Yes
Supported communication interface	IO-Link
Operating voltage (DC)	18 - 30 V
Time function	Yes
Output functions	Switching point   Switching behavior (static/dynamic)

**Mechanical features**

Design	Cuboid
Constructive design	Two-piece
Width	70 mm
Active zone width	40 mm
Height	15 mm
Active zone height	49 mm
Length	108.5 mm
Frame opening, lengthwise	49 mm
Frame opening, crosswise	40 mm
Degree of protection (IP)	IP67
Active area material of sensor	Plastic
Housing material	Aluminum
With mechanical impact protection	Yes
Ambient temperature	-10 - 60 °C

**Optical features**

Resolution, dynamic	0.7 mm
Resolution, static	1 mm
Light source	Infrared light
Min. object size	1 mm

**Other features**

IO-Link version	V1.1.3
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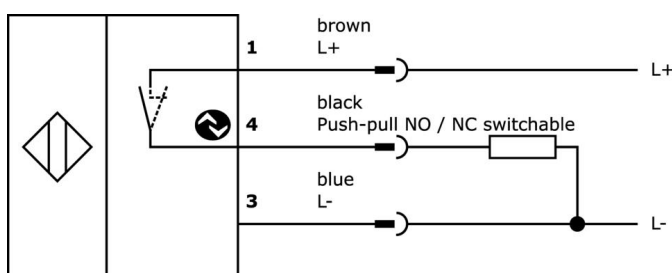
**Classification**

ETIM 8	
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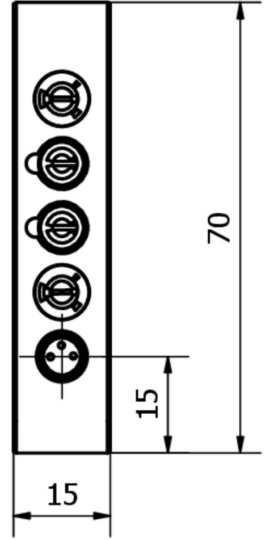
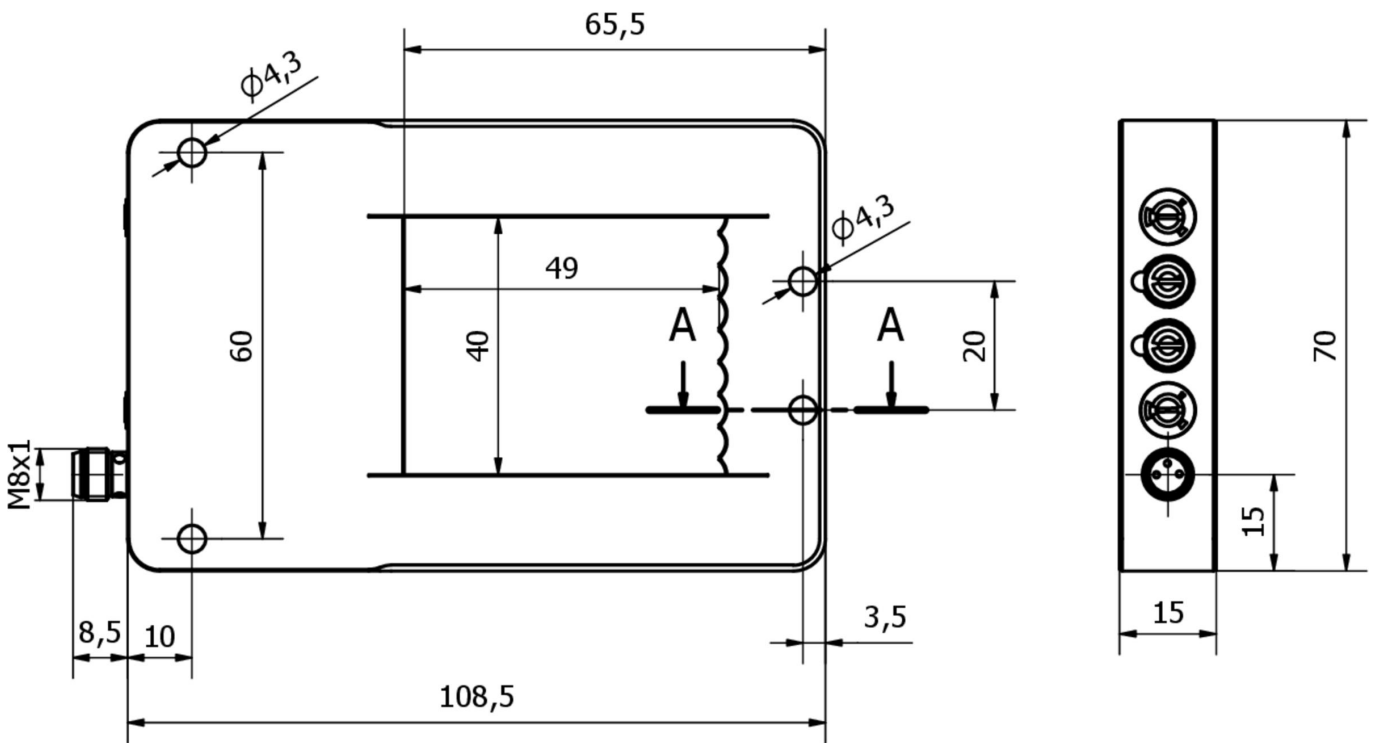
**More**

IPF Product Group	112 frame light barriers
packaging dimensions	165 x 130 x 36 mm
gross weight	213 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

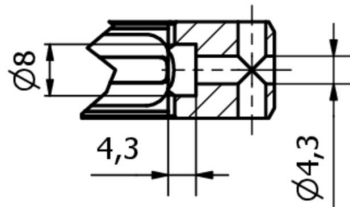
**Connection**



**Dimensional drawing**



**A-A ( 1 : 1 )**



**Extract accessories program**

**VK030F82**



Connection cable, 0.3m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0.34mm<sup>2</sup>, PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

**VK060F82**



Connection cable, 0.6m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0.34mm<sup>2</sup>, PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

**VK200271**



Connection cable, 2m, M8 Female (socket) 3pin Angular, Free conductor end, 3x0.34mm<sup>2</sup>, 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...

**VK500271**



Connection cable, 5m, M8 Female (socket) 3pin Angular, Free conductor end 3pin, 3x0.34mm<sup>2</sup>, PUR (Polyurethane), Ø4.3mm, -30-90°C, IP67, With LED display, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, S...

**VK000036**



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

**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

**VK030F72**



Connection cable, 0.3m, M8 socket 3-pin angular, M12 connector 3-pin straight, 3x0.34mm<sup>2</sup>, 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, M12 connector 3-pin straight, 3x0.34mm<sup>2</sup>, PUR (polyurethane), IP67, LED, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

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](http://www.ipf-electronic.com)