

OG80F001

Optical sensors • Forked light barriers

Sensor optical, fork, 100x10x80mm, fork width 80mm, 10-35V diagnostic coverage, 1x PNP, NC/NO, M8 plug connector 3-pin, IP67, zinc diecast, red light, 5kHz pulsed, manual setting

IPF

Special design of the through-beam sensor. The transmitter and receiver are located in the forked or angled legs and are perfectly aligned with each other

Electrical features

Response/decay time	0.1ms
Number of switching outputs	1
Resolution	0.5mm
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
Readiness delay	400ms
Setting procedure	Potentiometer
Short-circuit protection	Yes
No-load current	40mA
Number of pins	3
Repeatability +/-	20µm
Switching frequency	5000Hz
Voltage drop	1.2V
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Absolute repeat accuracy	0.02mm
Operating voltage (DC)	10 - 35V

Mechanical features

Fork light barrier design	Furcate
Width	80mm
Fork depth	55mm
Fork width	80mm
Height	100mm
Length	10mm
Degree of protection (IP)	IP67
Housing material	Zinc die-cast
Ambient temperature	-20 - 55°C

Optical features

Light source	red light
Light beam form	Point
Min. object size	0.5mm
Light wavelength of the transmitter diode	630nm
Wavelength of the sensor	630nm
Pulsed light source	Yes

Other features

Feeding technology	Yes
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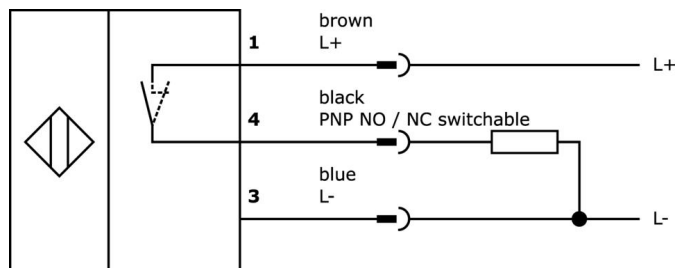
Classification

ETIM 8

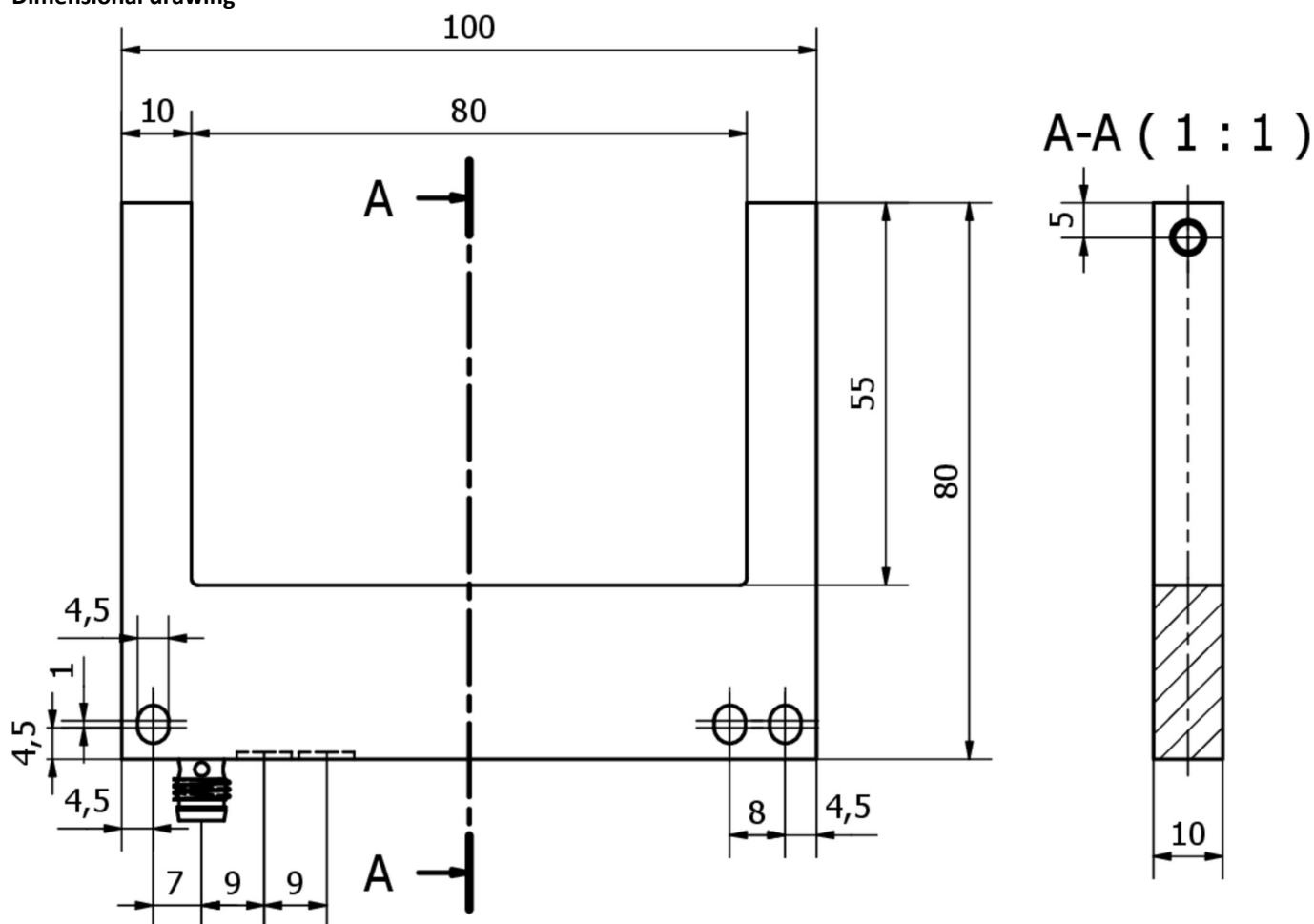
More

IPF Product Group	110 fork / angular light barriers
packaging dimensions	149 x 124 x 28 mm
gross weight	139 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

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

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

VK000036



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

VL300104



Logic module, 26x90x30mm, AND/OR, 4fold, 10-30V DC, sensor side M8 Female (socket) 3pin, control side M12 Male (connector) 12pin, IP67, Plastic

VL300108



Logic module, 26x136x30mm, AND/OR, 8fold, 10-30V DC, sensor side M8 Female (socket) 3pin, control side M12 Male (connector) 12pin, IP67, Plastic

VK000038



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

VK030F82



Connection cable, 0.3m, M8 socket 3-pin angular, M12 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

You can find further accessories on our homepage

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.