

OYL2F001

Optical sensors • Light curtains

Light curtain, 400x41x9 mm, field height 200, resolution 20 mm, Sn: 0.3–5 m, 10–30 V DC, relay contact NO/NC, M8 connector 4-pin/4-pin, IP54, aluminum + plastic, with bracket mounting

including Transmitter and receiver



Multifunction photoelectric sensors are light barriers that incorporate multiple beams. If even one beam is interrupted, the receiver's switching output changes status. These devices are used in applications where a standard light barrier with only one beam is insufficient. Devices are available with beam spacings of 20, 40, 60, or 120 mm and various field heights. Integrated fuzzy logic automatically regulates the transmitting power.

Electrical features

Number of contact energized outputs with signaling function	1
Resolution	20 mm
Type of switching function	Normally closed contact/normally open contact
Type of electrical connection	M8-connector
Type of switching output	Relay contact
Rated switching current	100 mA
No-load current, receiver	60 mA
No-load current, transmitter	60 mA
Number of pins, receiver	4
Number of pins, transmitter	4
Reaction time	220 ms
Switching distance	300 - 5000 mm
Protection class	III
Operating voltage (DC)	10 - 30 V
protection functions	short circuit protection reverse polarity protection

Mechanical features

Width	9 mm
Field height	200 mm
Height	400 mm
Length	40.75 mm
Mounting method	Bracket / screw-on mounting
Degree of protection (IP)	IP54
Active area material of sensor	Plastic
Housing material	aluminum
Ambient temperature	-25 - 55 °C

Optical features

Beam spacing	20 mm
Number of beams	11
Wavelength of the sensor	880 nm

Other features

Range of functions	Masking Barcode
--------------------	-----------------

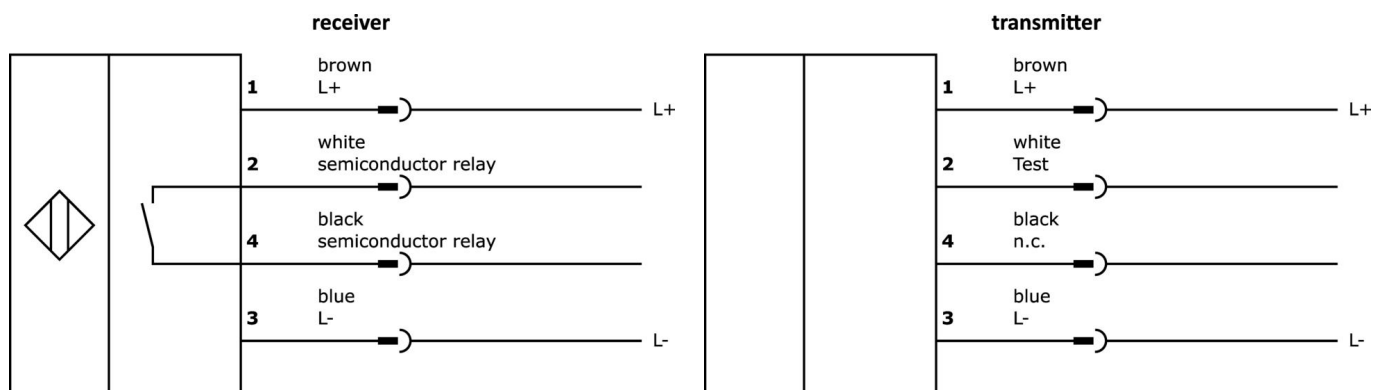
Classification

ETIM 8

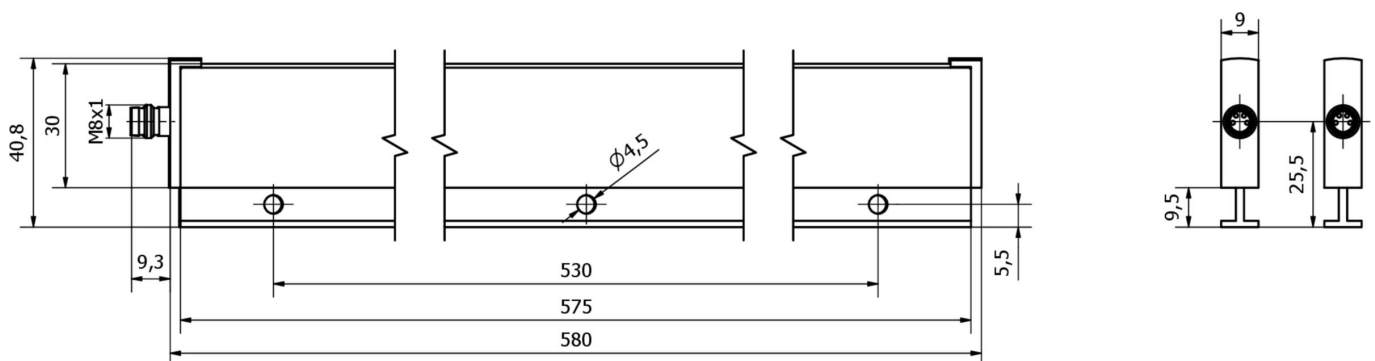
More

IPF Product Group	100 optical sensors
packaging dimensions	470 x 80 x 55 mm
gross weight	371 g
customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

AY98C293



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

VK003071



Cable socket, Angular, Suitable for
self-assembly, Soldering
connection, Ø3.5-5mm, 4A, 30V, -
40-85°C, M8 Female (socket) 4pin,
IP67, Brass

VK003075



Cable socket, Straight, Suitable for
self-assembly, Soldering
connection, Ø3.5-5mm, 4A, 30V, -
40-85°C, M8 Female (socket) 4pin,
IP67, Brass

AO000293



accessories optical, Infrared
spotfinder, Plastic, With LED
display, Signal tone

VK205375



Connection cable, 2m, M8 socket
4-pin straight, free cable end, 4x0.
34mm², PUR (polyurethane), Ø5.
5mm, 60V, -25-90°C, IP67,
shielded, suitable for trailing chain
and torsion resistant, oils and
cooling lubricants, welding area,
silicone-free

VK505371



Connection cable, 5m, M8 socket
4-pin angular, free cable end, 4x0.
34mm², PUR (polyurethane), Ø5.
5mm, 60V, -25-90°C, IP67,
shielded, suitable for trailing chain
and torsion resistant, oils and
cooling lubricants, welding range,
silicone-free

VK200371



Connection cable, 2m, M8 socket
4-pin angular, free cable end, 4x0.
34mm², PUR (polyurethane), Ø4.
7mm, 30V, -30-90°C, IP67, suitable
for trailing chain and torsion
resistant, oils and cooling
lubricants, welding area, silicone-
free

VK200375



Connection cable, 2m, M8 socket
4-pin straight, free cable end, 4x0.
34mm², PUR (polyurethane), Ø4.
7mm, 30V, -30-90°C, IP67, suitable
for trailing chain and torsion
resistant, oils and cooling
lubricants, welding area, silicone-
free

VK030F71



Connection cable, 0.3m, M8
socket 4-pin angular, M8
connector 4-pin straight, 4-core,
PUR (polyurethane), 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.