

OL400321

Fiber optic sensors • Amplifiers fiber optic fiberglass

fiber optic-amplifier, 42x84x40mm, 10-35V DC, 1x PNP/NPN NC/NO, Connector M12 4pin, IP65, Aluminum, Infrared light



Fiber optics in combination with the appropriate fiber optic amplifier function as contactless and wear-free position switches that can also be used in harsh environmental conditions. They detect objects independent of their characteristics (e.g., shape, color, surface structure, material). Because the ends and heads of the fiber optics have small dimensions and the fiber optics are flexible, very elegant solutions can be created for detecting objects in places that are difficult to access. Fiber optics can be used without special precautions in potentially explosive areas and in zones with electrical and/or magnetic fields (high-voltage installations, electrical welding equipment) as their function is not thereby affected. Fiber optics are available in versions for implementing the function as through-beam sensor or diffuse reflection sensor.

Electrical features

Response/decay time	1 ms
Number of switching outputs	1
Display	LED display
Type of switching function	Normally closed contact/normally open contact
Type of electrical connection	Connector M12
Type of switching output	PNP/NPN
Rated switching current	400 mA
Setting procedure	Potentiometer
Relative hysteresis	15 %
Short-circuit protection	Yes
No-load current	30 mA
Number of pins	4
Switching frequency	500 Hz
Voltage drop	2 V
Scanning function	Light-/dark-on mode
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 35 V
Output functions	Switching point

Mechanical features

Design	Cuboid
Width	40 mm
Height	42 mm
Length	83.5 mm
Degree of protection (IP)	IP65
Housing material	Aluminum
Design of the fiber optic connection	screw fitting M18
Ambient temperature	-10 - 60 °C

Optical features

Light source	Infrared light
Wavelength of the sensor	880 nm

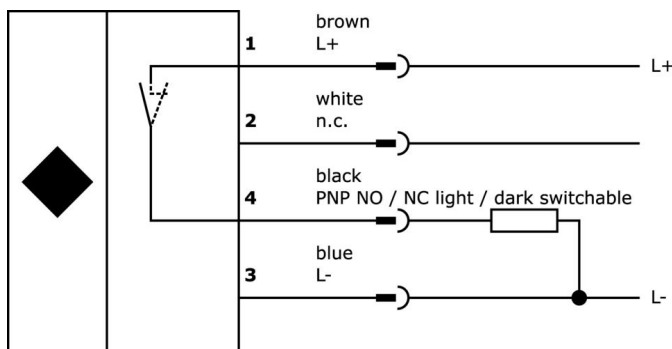
Classification

ETIM 8	EC002651 Fiber optic sensor/amplifier
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More

IPF Product Group	152 fiber optic amplifiers
packaging dimensions	105 x 43 x 43 mm
gross weight	200 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

VK200321



Connection cable, 2m, M12
Female (socket) 4pin Angular, Free conductor end, 4x0.34mm², PUR (Polyurethane), Ø4.7mm, 250V, -40-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK200325



Connection cable, 2m, M12
Female (socket) 4pin Straight, Free conductor end, 4x0.34mm², PUR (Polyurethane), Ø4.7mm, 250V, -40-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

LT030000



fiber optic diffuse-reflection sensor, 0.3m, head: Stainless steel 25long Ø1 Ø6, Light exit Axial, conductor: Glassfiber+Silicone, end piece: M18x1 Brass, Sn: 5, -40-180°C, IP67

LT030101



fiber optic diffuse-reflection sensor, 0.3m, head: Stainless steel 25long Ø1.5 Ø6, Light exit Axial, conductor: Glassfiber+Silicone, end piece: M18x1 Brass, Sn: 15, -40-180°C, IP67

VK030F60



Connection cable, 0.3m, M12 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

VK030F64



Connection cable, 0.3m, M12 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

VK030F21



Connection cable, 0.3m, M12 socket 4-pin angular, M12 connector 4-pin straight, 4x0.34mm², 240V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK030F25



Connection cable, 0.3m, M12 socket 4-pin straight, M12 connector 4-pin straight, 4x0.34mm², PUR (polyurethane), 240V, IP67, suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK000037



Adaption, M12 Female (socket) 3pin Straight, M8 Male (connector) 3pin 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.