

LTSI0331

Accessories • Fiber optics for color sensors - Diffuse reflection sensors

diffuse reflection sensor, 0,6m, head: stainless steel 20lang Ø6, light exit axial, conductor: glass fiber optics+brass, end piece: M18x1 plastic, -40-400°C



Fiber optics in conjunction with the appropriate fiber optic amplifier are contactless and wear-free position switches that can also be used under harsh environmental conditions. They detect objects regardless of their nature (e.g. shape, color, surface structure, material). Since the fiber optic ends or heads have small dimensions and the fiber optics are also flexible, object detection in hard-to-reach places can be solved very elegantly. Fiber optics can be used without special precautions in potentially explosive atmospheres and in zones with electric and/or magnetic fields (high-voltage installations, electric welding equipment), since their function is not impaired by this. Fiber optics are available in versions for implementing the function as through-beam or diffuse reflection sensors.

Electrical features

Bending angle of the sensing head	0 °
Sensing head length	20 mm

Mechanical features

Type of fiber	Multi
Design	Cylinder plain
Sensing head diameter 1	1
Sensing head diameter 2	6
Fiber diameter	0.6 mm
End piece diameter	22 mm
Light exit diameter	0.6
Fiber optic cable diameter	4.4
End piece thread pitch	1 mm
Length	600 mm
End piece length	35 mm
Sheathing material	Brass
End piece material	Plastic
Fiber optics core material	Glass
Sensing head material	Stainless steel
Design of the fiber optic connection	screw fitting M18
Thread dimension of the end piece	M18

Optical features

Light exit	axial
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Other features

Suitable for Color sensors with white light source / fiber optics

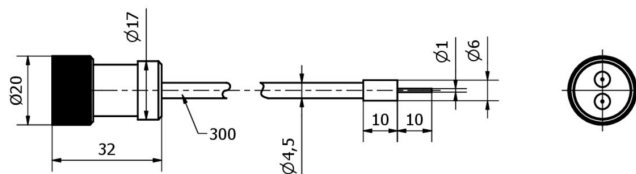
Classification

ETIM 8

More

IPF Product Group	705 special devices (SI)
packaging dimensions	123 x 77 x 25 mm
gross weight	40 g
Customs tariff number	90011090
WEEE number	40951076
RoHS-compliant	Yes

Dimensional drawing



Extract accessories program

OF500180



sensor optical, color,
36x50x50mm, White light, True color, Sn: 1-500, 22-26V DC, 2x PNP/NPN Push-pull, Connector M8 4pin, IP64, Aluminum Anodised, With fiber optics connection, ΔE >= 0.5, 60kHz, 3 colors

OF650080



sensor optical, color,
36x65x65mm, White light, True color, Sn: 1-500, 22-26V DC, 2x PNP/NPN Push-pull, Connector M9 8pin, IP64, Aluminum Anodised, With fiber optics connection, ΔE >= 0.5, 60kHz, 3 colors

[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.