

**LT120290**

**FIBER OPTIC SENSORS • FIBER OPTICS COLOR RECOGNITION**

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.



**MECHANICAL DATA**

Ambient temperature	-40 °C ... 180 °C
Ejection control	Yes
Fiber diameter	6.6 mm
Fiber optics core material	Glass
Heavy soiling	Yes
Housing design	Cylinder plain
Housing material	Aluminium
Increased ambient temperature ≤ 180°C	Yes
Material of cable sheath	Silicone
Number of fibers	1
Overall length	1200 mm
Punching tools	Yes
Sensing head diameter	7 mm
Sheathing material	Metal inner helix/braided glass fibers
Strong vibration / motion	Yes
Type of mechanical connection	Screw connection M18
Version	Diffuse reflection sensor-color sensors

**ELECTRICAL DATA**

Analogue output 0 mA ... 20 mA	No
Analogue output 0 V ... 10 V	No
Analogue output -10 V ... +10 V	No
Analogue output 4 mA ... 20 mA	No
Light exit	Axial
Sensing head length	30 mm
With blanking function	Yes

**OTHER DATA**

Feeding technology	Yes
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**DIMENSIONAL DRAWING****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!