

LT1201Y1

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 optics core material | Glass |
| Heavy soiling | Yes |
| Housing design | Cylinder plain |
| Increased ambient temperature ≤ 180°C | Yes |
| Number of fibers | 1 |
| Overall length | 1200 mm |
| Punching tools | Yes |
| Sensing head diameter | 2.5 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 |
| With blanking function | Yes |

OTHER DATA

| | |
|--------------------|-----|
| Feeding technology | Yes |
|--------------------|-----|

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!