

## OL98C134

### FIBER OPTIC SENSORS • FIBER OPTIC AMPLIFIERS

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	-20 °C ... 70 °C
Amplifier height	160 mm
Amplifier length	90 mm
Amplifier width	220 mm
Degree of protection (IP)	IP67
Housing design	Cuboid

#### ELECTRICAL DATA

Analogue output 0 mA ... 20 mA	No
Analogue output 0 V ... 10 V	Yes
Analogue output -10 V ... +10 V	No
Analogue output 4 mA ... 20 mA	Yes
Equipment protection class	Safety class 1
Number of switching outputs	4
Operating voltage	24 V ... 24 V
Rated control supply voltage $U_s$ at AC 50HZ	230 V ... 230 V
Rated control supply voltage $U_s$ at DC	24 V ... 24 V
Response time	100 ms
Response/decay time	100 ms
Scanning function	Light-/dark-on mode
Setting procedure	Manual adjustment
Type of electrical connection	Clamp
Type of switch function	Change-over contact (NO/NC)
Type of switching output	Relay contact
Voltage type	AC/DC
With blanking function	Yes

#### OPTICAL DATA

Light source	Infrared light
Wavelength of the sensor	880 nm

**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!