OK480320

OPTICAL SENSORS • CONTRAST SCANNERS

Contrast scanners are capable to distinguish the the visual differences (e.g. reflectivity, brightness differences) between adjacent areas. In general, the devices project a light spot on an object's surface and analyze the reflected light. Fiber optic amplifier versions can be used in addition to the incident light mode also in the transmitted light mode. Contrast scanners are versatile. They can be used, among other things, for position control of printing or color marks, distinction of brightness variations or in the intensity control of luminous objects (like LEDs, displays etc.).

MECHANICAL DATA

Ambient temperature	-25 °C ... 60 °C
Degree of protection (IP)	IP67
Housing design	Cuboid
Housing material	Zinc die-cast
Material of optical surface	Glass
Sensor height	60 mm
Sensor length	96.5 mm
Sensor width	30 mm
With fiber optics connection	No
With interchangeable lens	No

ELECTRICAL DATA

Analogue output 0 mA ... 20 mA	Yes
Analogue output 0 V ... 10 V	No
Analogue output -10 V ... +10 V	No
Analogue output 4 mA ... 20 mA	No
No-load current	60 mA
Number of pins	5
Operating voltage	12 V ... 30 V
Rated control supply voltage Us at DC	12 V ... 30 V
Readiness delay	250 ms
Reverse polarity protection	Yes
Setting procedure	Teach-In
Short-circuit-proof	Yes
Switching frequency	25000 Hz
Type of electrical connection	Connector M12
Type of switching function	Change-over contact (NO/NC)
Type of switching output	PNP
Voltage type	DC
With blanking function	No
With LED display	Yes

ELECTRICAL DATA

With time function	No

OPTICAL DATA

Light spot	2 mm²

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!

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