OK430370

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 (MAX)	65 °C
Ambient temperature (MIN)	-25 °C
Degree of protection (IP)	IP67
Housing design	Cuboid
Housing material	Plastic
Material of optical surface	PMMA
Sensor height	43 mm
Sensor length	31 mm
Sensor width	14.8 mm
With fiber optics connection	No
With interchangeable lens	No

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
Max. output current	100 mA
No-load current	20 mA
Number of pins	4
Setting procedure	Teach-In
Switching frequency	10000 Hz
Type of electrical connection	Connector M8
Type of switching function	Push-pull
Type of switching output	PNP/NPN
Voltage drop	2 V
With blanking function	No
With LED display	Yes
With time function	No

OPTICAL DATA

Light source	White light
Light spot	3 mm²
Linear light beam	Yes
Nominal sensing range	13 mm

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!

Never use these devices in applications where the safety of a person depends on their functionality.

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