

## OK37C917

### 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)	70 °C
Ambient temperature (MIN)	-30 °C
Degree of protection (IP)	IP67
Housing design	Cuboid
Housing material	Stainless steel
Material of optical surface	PMMA
Sensor height	35.5 mm
Sensor length	25 mm
Sensor width	14 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
Operating voltage (MAX)	30 V
Operating voltage (MIN)	10 V
Rated control supply voltage $U_s$ at DC (MAX)	30 V
Rated control supply voltage $U_s$ at DC (MIN)	10 V
Readiness delay	300 ms
Reverse polarity protection	Yes
Setting procedure	Teach-In
Short-circuit-proof	Yes
Switching frequency	10000 Hz
Type of electrical connection	Connector M8
Type of switching output	PNP
Voltage type	DC
With blanking function	No

**ELECTRICAL DATA**

With time function

No

**OPTICAL DATA**

Detection of print marks

Yes

Light source

White light

Light spot

6 mm<sup>2</sup>

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.