

OK98E016

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	-10 °C ... 55 °C
Degree of protection (IP)	IP67
Housing design	Cuboid
Housing material	Zinc die-cast
Material of optical surface	Glass
Sensor height	81.2 mm
Sensor length	62.3 mm
Sensor width	31 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
Light color, selectable	Yes
Max. output current	200 mA
Number of pins	4
Operating voltage	10 V ... 30 V
Rated control supply voltage U_s at DC	10 V ... 30 V
Reverse polarity protection	Yes
Sensing range (MAX)	9 mm
Setting procedure	Teach-In
Short-circuit-proof	Yes
Switching frequency	10000 Hz
Type of electrical connection	Connector M12
Type of switching function	Push-pull
Type of switching output	PNP/NPN
Voltage type	DC
With blanking function	No

ELECTRICAL DATA

With LED display Yes

With time function No

OPTICAL DATA

Light color, version 2 Green light

Light source Polarity free red light

Nominal sensing range 9 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!