

## OKSI0276

### 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)	55 °C
Ambient temperature (MIN)	-20 °C
Degree of protection (IP)	IP64
Housing design	Cuboid
Housing material	Aluminium
Material of optical surface	Glass
Sensor height	36 mm
Sensor length	65 mm
Sensor width	65 mm
With fiber optics connection	Yes
With interchangeable lens	No

#### ELECTRICAL DATA

Analogue output 0 mA ... 20 mA	No
Analogue output 0 V ... 10 V	Yes
Analogue output -10 V ... +10 V	Yes
Analogue output 4 mA ... 20 mA	Yes
High scanning frequency	Yes
Large sensing range	Yes
Max. output current	100 mA
Operating voltage (MAX)	24 V
Operating voltage (MIN)	24 V
Programmable via software	Yes
Reverse polarity protection	Yes
Sensing range (MAX)	500 mm
Sensing range (MIN)	1 mm
Setting procedure	Parameterization
Switching frequency	60000 Hz
Type of electrical connection	Connector M9
Type of switching function	Programmable/configurable
Type of switching output	PNP/NPN

**ELECTRICAL DATA**

Voltage type	DC
With blanking function	No
With LED display	Yes
With time function	No

**OPTICAL DATA**

Light source	White light
Transmitted light applications	Yes
Turbidity inspection	Yes

**OTHER DATA**

For counting tasks	Yes
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**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.