PK170000

LASER 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 ... 50 °C
Degree of protection (IP)	IP67
Housing design	Cuboid
Housing material	Zinc die-cast
Material of cable sheath	PVC
Material of optical surface	Glass
Sensor height	50 mm
Sensor length	50 mm
Sensor width	15.4 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	200 mA
No-load current	65 mA
Operating voltage	12 V ... 30 V
Rated control supply voltage Us at DC	12 V ... 30 V
Reverse polarity protection	Yes
Sensing range (MAX)	250 mm
Setting procedure	Manual adjustment
Short-circuit-proof	Yes
Type of electrical connection	Cable
Type of switching function	Normally open contact (NO)
Type of switching output	PNP
Voltage drop	1.8 V
Voltage type	DC
With blanking function	No

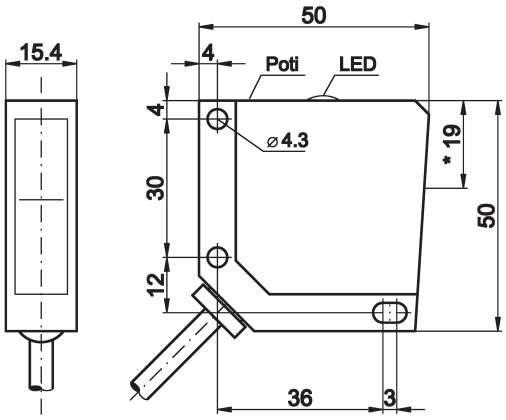
ELECTRICAL DATA

With LED display	Yes
With time function	No

OPTICAL DATA

Laser protection class	Class 1
Light source	Laser diode, red light
Wavelength of the sensor	650 nm

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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