

## PK170020

### Laser sensors • Contrast sensor

sensor laser, contrast, 50x50x15mm, Sn: 0-250, 12-30V DC, 4-20mA, Connector M12 4pin, Zinc die-cast



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.).

#### Electrical features

Display	LED display
Type of analog output	4 - 20mA
Type of electrical connection	Connector M12
Rated switching current	200mA
Short-circuit protection	Yes
Number of pins	4
Switching distance	0 - 250mm
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	12 - 30V

#### Mechanical features

Design	Cuboid
Width	15.4mm
Height	50mm
Length	50mm
Housing material	Zinc die-cast
Ambient temperature	-10 - 50°C

#### Optical features

Laser class	Class 1
Light beam form	Point
Wavelength of the sensor	650nm

#### Other features

Ambient temperature	-10 - 50°C
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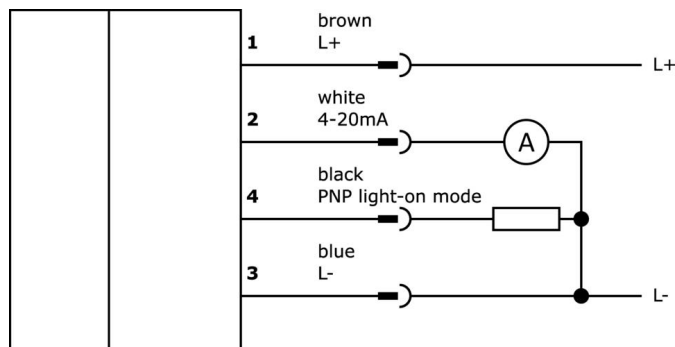
## Classification

ETIM 8	EC001820 Contrast scanner
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## More

IPF Product Group	168 laser contrast readers
packaging dimensions	123 x 77 x 25 mm
gross weight	120 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

## Connection



## 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.

For suitable connection and mounting accessories, please refer to our website [www.ipf-electronic.com](http://www.ipf-electronic.com).

Dimensional drawing

