

## PK140470

### Laser sensors • Contrast sensor

sensor laser, contrast, 34x16x12mm, Laser diode, red light, Sn: 0-150, 10-30V DC, PNP, Connector M8 4pin, IP67, PMMA, 10kHz, Manual adjustment



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 electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	100mA
Setting procedure	Manual adjustment
Short-circuit protection	Yes
No-load current	50mA
Number of pins	4
Switching distance	0 - 150mm
Switching frequency	10000Hz
Voltage drop	1.8V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

#### Mechanical features

Design	Cuboid
Width	12mm
Height	33.7mm
Length	16.3mm
Maximum tightening torque	0.5Nm
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PMMA)
Ambient temperature	-10 - 50°C

## Optical features

Laser class	Class 2
Light source	Laser diode, red light
Light beam form	Point
Nominal operating distance	150mm

## Other features

Ambient temperature	-10 - 50°C
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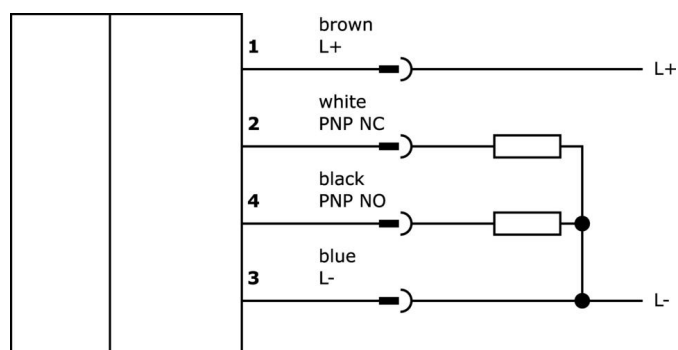
## Classification

ETIM 8	EC001820 Contrast scanner
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## More

IPF Product Group	168 laser contrast readers
packaging dimensions	95 x 75 x 17 mm
gross weight	30 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).