

OK500320

Optical sensors • Contrast sensor

Sensor Optical, contrast, 50x40x15mm, Sn: 30, 10-35V diagnostic coverage, push-pull, M12 connector 4-pin, zinc diecast+plastic PC, teach-in



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 switching function	Schließer (NO bei PNP) Öffner (NC bei NPN) - Einstellbar
Type of electrical connection	Connector M12
Type of switching output	Push-pull
Rated switching current	200mA
Setting procedure	Teach-In
Short-circuit protection	No
Number of pins	4
Voltage drop	2V
Reverse polarity protection	No
Operating voltage (DC)	10 - 35V
Measuring range	30mm

Mechanical features

Design	Cuboid
Width	15mm
Height	50mm
Length	40mm
Active area material of sensor	Plastic (PC)
Housing material	Zinc die-cast

Optical features

Light beam form	Point
Nominal operating distance	30mm
Detection of print marks	Yes
focus	30mm

Other features

Reference distance	30
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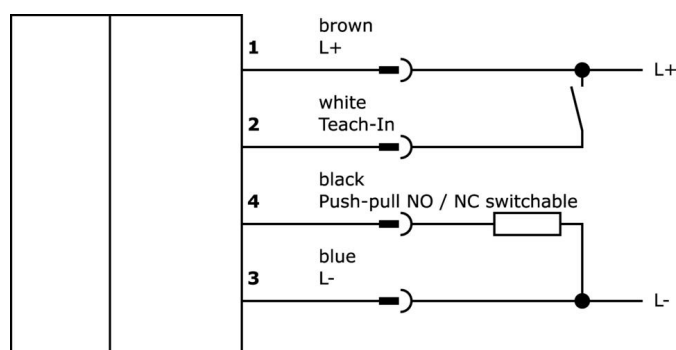
Classification

ETIM 8	EC001820 Contrast scanner
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More

IPF Product Group	108 contrast readers
packaging dimensions	123 x 77 x 25 mm
gross weight	110 g
Customs tariff number	85365019
WEEE number	40951076
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.