

OKSI0276

Optical sensors • Contrast sensor

sensor optical, contrast, 36x65x65mm, White light, Sn: 1-500, 24V DC, 2x PNP/NPN, 0 / -10V ... 10V / 4mA ... 20mA, Connector M9, IP64, 200kHz, Parameterization, With fiber optics connection, Programmable via software



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

Number of switching outputs	2
Display	LED display
Type of analog output	0 - 10V -10 - 10V 4 - 20mA
Type of electrical connection	Connector M9
Type of switching output	PNP/NPN
Rated switching current	100mA
Setting procedure	Application software Parameterization
Short-circuit protection	No
Switching frequency	200000Hz
Reverse polarity protection	Yes
Operating voltage (DC)	24V
Measuring range	1 - 500mm

Mechanical features

Design	Cuboid
Width	65mm
Height	36mm
Length	65mm
Degree of protection (IP)	IP64
With fiber optics connection	Yes
Ambient temperature	-20 - 55°C

Optical features

Light source	White light
Light beam form	Point
Transmitted light applications	Yes
Turbidity inspection	Yes

Other features

Ambient temperature	-20 - 55°C
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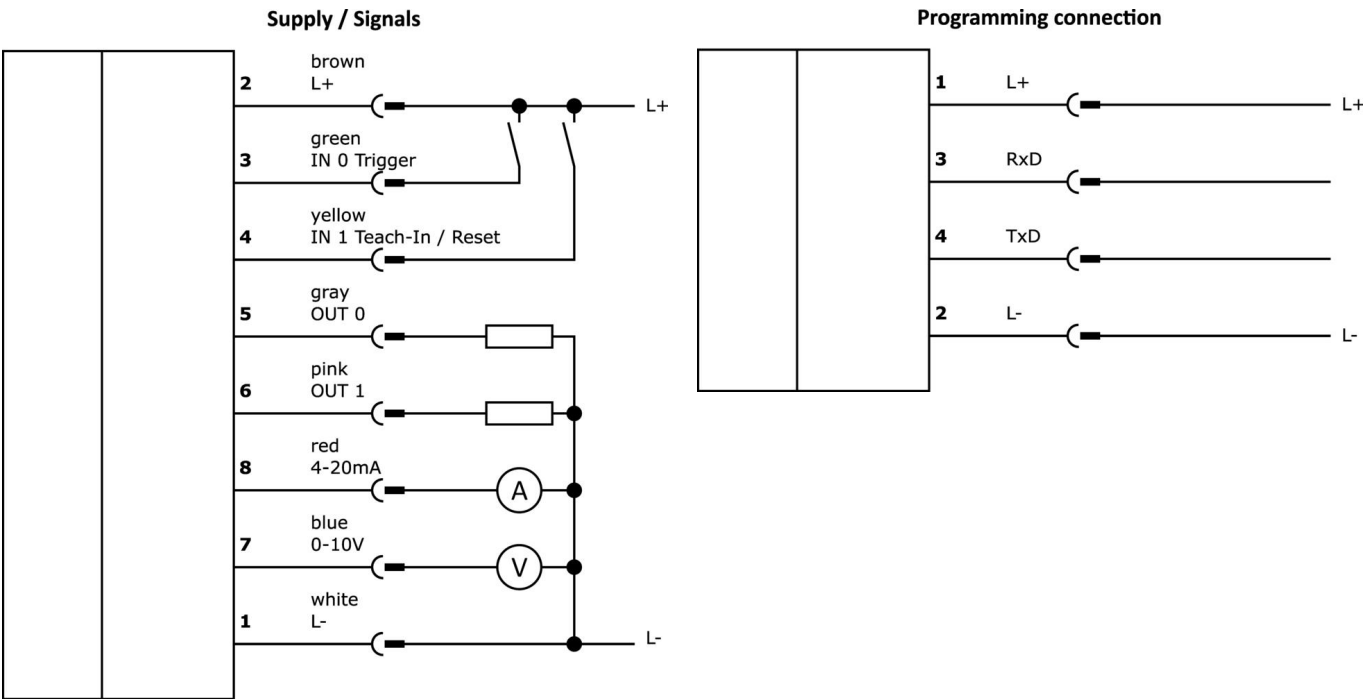
Classification

ETIM 8	EC001820 Contrast scanner
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More

IPF Product Group	705 special devices (SI)
packaging dimensions	210 x 138 x 95 mm
gross weight	
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.

Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: www.ipf-electronic.com