

## OK630181

### Optical sensors • Contrast sensor

sensor optical, contrast, 38x65x65mm, Other, Sn: 1-500, 24V DC, 2x PNP/NPN, 0-10V/4-20mA, Connector M9 8pin, IP64, 60kHz, Parameterization, With time function, With fiber optics connection, RS232, Programmable via software



### Detection of fluorescent objects

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   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	Yes
No-load current	160mA
Number of pins	8
Switching frequency	60000Hz
Reverse polarity protection	Yes
Type of plug-in connection, communication interface	Connector M5
Supported communication interface	RS232
Operating voltage (DC)	24V
Measuring range	1 - 500mm
Time function	Yes

#### Mechanical features

Design	Cuboid
Width	65mm
Height	38mm
Storage temperature	-20 - 85°C
Length	65mm
Degree of protection (IP)	IP64
With fiber optics connection	Yes
Ambient temperature	-20 - 55°C

**Optical features**

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

**Other features**

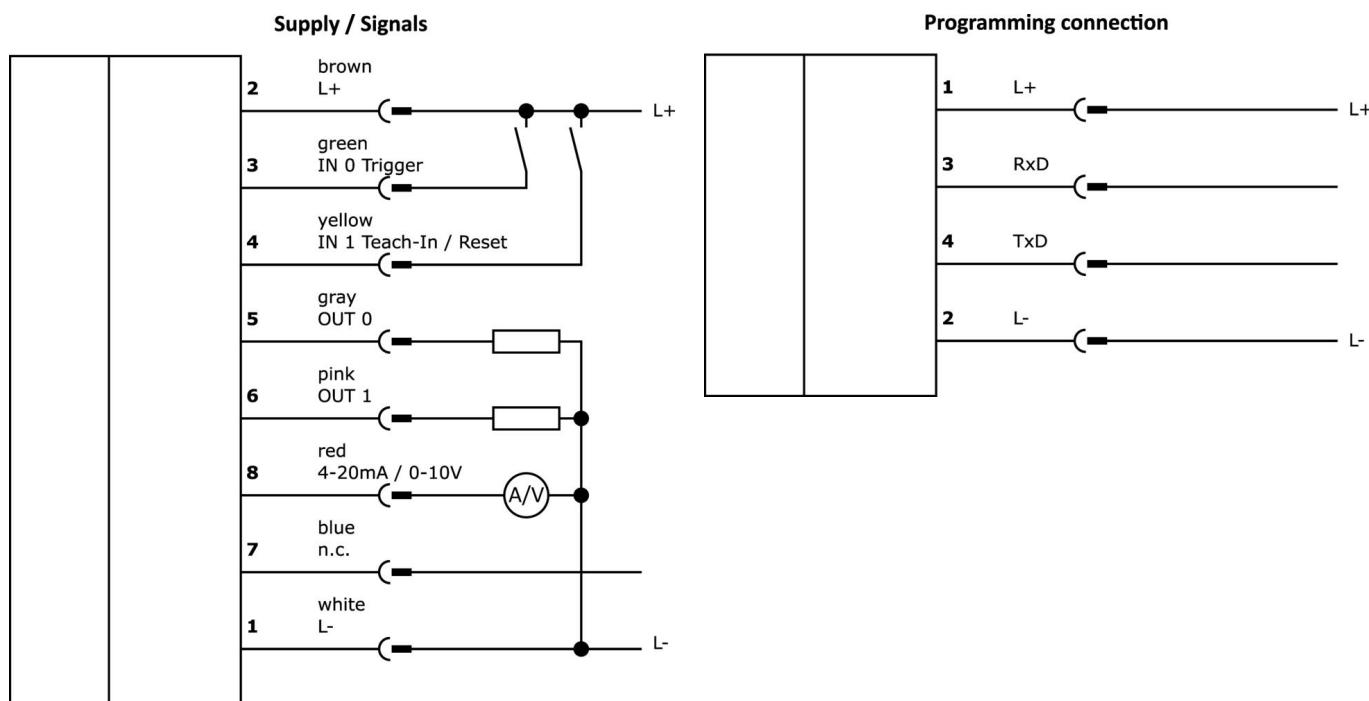
Ambient temperature	-20 - 55°C
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**Classification**

ETIM 8	EC001820 Contrast scanner
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**More**

IPF Product Group	108 contrast readers
packaging dimensions	160 x 99 x 60 mm
gross weight	189 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](http://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](http://www.ipf-electronic.com)

**Dimensional drawing**