

## OK639196

### OPTICAL SENSORS • CONTRAST SCANNERS

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.).

#### MECHANICAL FEATURES

Ambient temperature	-20 °C ... 55 °C
Degree of protection (IP)	IP64
Housing design	Cuboid
Sensor height	91 mm
Sensor length	65 mm
Sensor width	65 mm
Storage temperature	85 °C
Storage temperature	-20 °C
With fiber optics connection	-

#### ELECTRICAL FEATURES

Analog output 0 mA ... 20 mA	-
Analog output 0 V ... 10 V	+
Analog output -10 V ... +10 V	-
Analog output 4 mA ... 20 mA	+
Analogue output 0 V ... 5,5 V	-
High scanning frequency	+
Large sensing range	-
Light color, selectable	-
Max. output current	100 mA
Number of switching outputs	2
Operating voltage	24 V ... 24 V
Programmable via software	+
Rated control supply voltage $U_s$ at DC	24 V ... 24 V
Reverse polarity protection	+
Sensing range	60 mm ... 240 mm
Setting procedure	Parameterization
Short-circuit protection	+
Switching frequency	60000 Hz
Type of electrical connection	Connector M9
Type of switching output	PNP/NPN
Voltage type	DC
With blanking function	-

## ELECTRICAL FEATURES

With communication interface, RS-232	+
With LED display	+
With time function	-

## OPTICAL FEATURES

Light source	White light
Linear light beam	-
Detection of print marks	-
Detection of fluorescent materials	-
Turbidity inspection	-
Transmitted light applications	-

## OTHER FEATURES

For counting tasks	+
--------------------	---

## Other

Packaging dimensions	138.0mm x 95.0mm x 210mm
Shipping weight	0.5kg
Tariff code	85365019

## Classification

ipf product group	108
eClass 8.0	27270906
eClass 9.0	27270906
eClass 9.1	27270906
ETIM-5.0	EC001820
ETIM-6.0	EC001820
ETIM-7.0	EC001820

## Connection

## Dimensional drawing

### Installation



Mounting / installation may only be carried out by a qualified electrician!

### Disposal



## Software

Please download the software or driver required for operating your new device on our homepage: [www.ipf.de](http://www.ipf.de)

## 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.

LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.