

## OF210120 OPTICAL SENSORS • COLOR SENSORS

sensor optical, color, 50x40x15mm, White light, Sn: 30-40, 10-30V DC, 3x PNP NO (NO), Connector M12 5pin, IP67, PBTP+Glass, 4kHz, 3 colors



### MECHANICAL FEATURES

Ambient temperature	-5 °C ... 55 °C
Degree of protection (IP)	IP67
For damp environments	+
Housing design	Cuboid
Housing material	PBTP
Material of optical surface	Glass
Sensor height	50 mm
Sensor length	40 mm
Sensor width	15 mm

### ELECTRICAL FEATURES

EMC test in acc. with	DIN EN 60947-5-2
Equipment protection class	Protection class 3
No-load current	180 mA
Number of LEDs	3
Number of pins	5
Number of switching outputs	3
Operating voltage	10 V ... 30 V
Overload protection	+
Rated control supply voltage $U_s$ at DC	10 V ... 30 V
Rated switching current	200 mA
Reverse polarity protection	+
Sensing range	30 mm ... 40 mm
Setting procedure	Teach-In
Switching frequency	4000 Hz
Type of electrical connection	Connector M12
Type of switching function	Normally open contact (NO)
Type of switching output	PNP
Voltage type	DC
With LED display	+
With time function	+

## OPTICAL FEATURES

Measuring method for color detection	Active tristimulus method
Light source	White light
Light spot	12.57 mm <sup>2</sup>
Nominal sensing range	35 mm
Light spot diameter	4 mm
Light focus distance	35

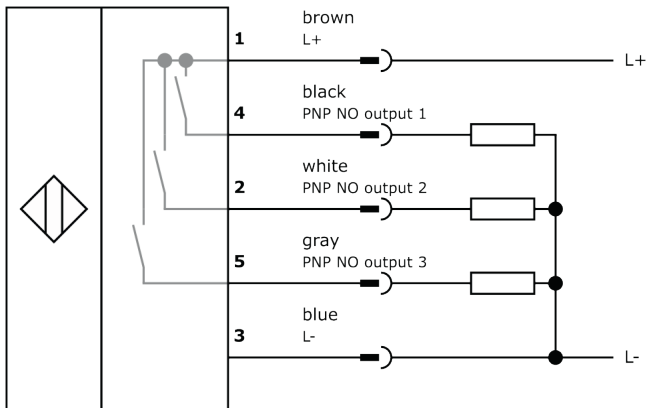
## Other

Packaging dimensions	185.0mm x 15.0mm x 210mm
Shipping weight	0.05kg
Tariff code	85365019

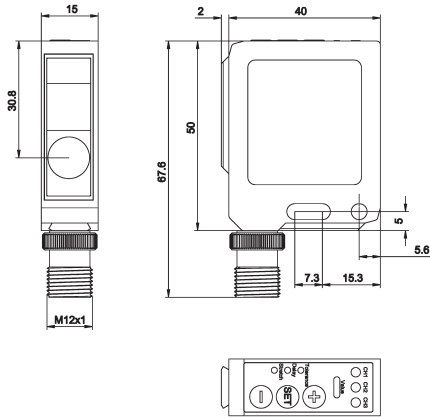
## Classification

ipf product group	104
eClass 8.0	27270907
eClass 9.0	27270907
eClass 9.1	27270907
ETIM-5.0	EC001817
ETIM-6.0	EC001817
ETIM-7.0	EC001817

## Connection



## Dimensional drawing



## Installation



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

## Disposal



## Software

Any software, drivers or IOOD 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)

## 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.