

## OF510142

### OPTICAL SENSORS • COLOR SENSORS

sensor optical, color, 27x50x50mm, White light, Focused, True color, Sn: 5-120, 22-26V DC, 5x PNP/NPN Push-pull, Connector M12 8pin, IP64, Aluminum Anodised,  $\Delta E \geq 0.5$ , 35kHz, 31 colors



#### MECHANICAL FEATURES

Ambient temperature	-20 °C ... 55 °C
Degree of protection (IP)	IP64
For damp environments	+
Housing coating	Anodized
Housing design	Cuboid
Housing material	Aluminum
Sensor height	27 mm
Sensor length	50 mm
Sensor width	50 mm
Storage temperature	-20 °C ... 85 °C
With fiber optics connection	-

#### ELECTRICAL FEATURES

Control of self-luminous objects	+
EMC test in acc. with	DIN EN 60947-5-2
Equipment protection class	Protection class 3
Max. number of measurements for averaging	32768
Measurement frequency in alternating light operation	20000 Hz
Measurement frequency in constant light operation	35000 Hz
No-load current	160 mA
Number of digital inputs	1
Number of pins	8
Number of pins of the communication interface	4
Number of switching outputs	5
Operating voltage	21.6 V ... 26.4 V
Overload protection	+
Pulse stretching (MAX)	100 ms
Rated control supply voltage $U_s$ at DC	21.6 V ... 26.4 V
Rated switching current	100 mA
Relative repeat accuracy	0.02 %
Reverse polarity protection	+
Selectable amplifier stages	8
Sensing range	5 mm ... 120 mm

**ELECTRICAL FEATURES**

Setting procedure	Parameterization
Short-circuit protection	+
Standard for interfaces	RS-232
Switching frequency	35000 Hz
Temperature drift	$\Delta X/\Delta T$ ; $\Delta Y/\Delta T$ typ. 0.2 digits/°C (< 0.01% / °C)
Type of communication interface	Connector M5
Type of electrical connection	Connector M12
Type of plug-in contact, communication interface	Female (socket)
Type of switching function	Push-pull
Type of switching output	PNP/NPN
Voltage type	DC
With communication interface, RS-232	+
With external teach	+
With external trigger	+
With time function	+

**OPTICAL FEATURES**

Measuring method for color detection	Active tristimulus method
Light source	White light
Focused	+
True color	+
Max. ambient light	5000 lx
Alternating light operation	+
Constant light operation	+
Color distance	$\Delta E \geq 0.5$
Color spaces	X Y INT siM (Lab)

**Other**

Packaging dimensions	99.0mm x 60mm x 160mm
Shipping weight	0.16kg
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

