OT05E287

OPTICAL SENSORS • DIFFUSE REFLECTION SENSORS WITH INTENSITY DIFFERENTIATION

sensor optical, diffuse-reflection sensor, M5x0.5 36long, Sn: 20, 10-30V DC, 1x PNP NO (NO), Cable connector M8 3pin 0.3m PUR (Polyurethane), IP67, V2A+PMMA, 1kHz, Infrared light, Point

MECHANICAL FEATURES

Ambient temperature	-25 °C ... 65 °C
Cable length	0.3 m
Degree of protection (IP)	IP67
Design	Cylinder, screw-thread
Housing material	Stainless steel (V2A)
Material of cable sheath	PUR (Polyurethane)
Material of optical surface	PMMA
Max. tightening torque	1 Nm
Number of cores	3
Reflector included in the scope of delivery	-
Sensor length	36 mm
Thread length	30 mm
Thread pitch	0.5 mm
Thread size, metric	5
Wire cross section	0.14 mm²
With interchangeable lens	-

ELECTRICAL FEATURES

Alarm output	-
Decay time	0.5 ms
Equipment protection class	Protection class 3
High repeat accuracy	-
Interference suppression	-
Max. switching distance	24 mm
No-load current	12 mA
Number of pins	3
Number of switching outputs	1
Operating voltage	10 V ... 30 V
Pre-failure message	-
Rated switching current	100 mA
Residual ripple	10 %
Response time	0.5 ms
Reverse polarity protection	+

ELECTRICAL FEATURES

Scanning function	Light switching
Sensing range	20 mm ... 20 mm
Short-circuit protection	+
Suitable for safety functions	-
Switching frequency	1000 Hz
Type of electrical connection	Cable connector M8
Type of switching function	Normally open contact (NO)
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With communication interface, RS-232	-
With LED display	+
With monitoring function of downstream devices	-
With other analog output	-
With restart lock	-
With time function	-

OPTICAL FEATURES

Light source	Infrared light
Wavelength of the sensor	880 nm
Light exit	Axial
Light beam form	Point
Small light beam diameter	-
Line scanner	-

OTHER FEATURES

Feeding technology	+
For gloss queries	-
Is line scan camera	-

Other

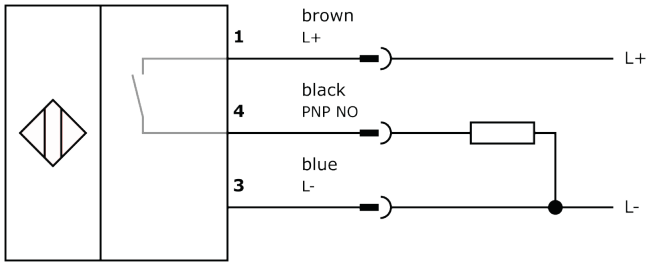
Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.03kg
Tariff code	85365019

Classification

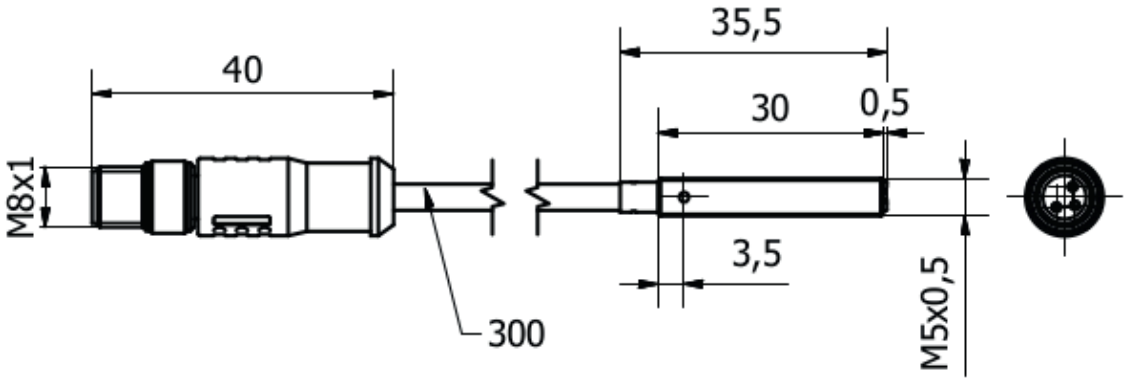
ipf product group	700
eClass 8.0	27270903
eClass 9.0	27270903
eClass 9.1	27270903
ETIM-5.0	EC001821
ETIM-6.0	EC001821
ETIM-7.0	EC001821

ipf electronic gmbh • Rosmarter Allee 14 • 58762 Altena | Tel +49 2351 9365-0 • Fax +49 2351 9365-19 | info@ipf.de • **www.ipf.de**

Connection



Dimensional drawing



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.
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.