PT490070

LASER SENSORS • DISTANCE MEASUREMENT

sensor laser, diffuse-reflection sensor, 48x40x13mm, Sn:50-350mm, Triangulation, 12-28V DC, 4-20mA, Connector M8 4pin, IP67, Aluminum+Glass, Laser diode, red light, Point, Teach-In

MECHANICAL FEATURES

Ambient temperature	0 °C ... 50 °C
Degree of protection (IP)	IP67
Design	Cuboid
Housing material	Aluminum
Material of optical surface	Glass
Sensor height	48.2 mm
Sensor length	40 mm
Sensor width	13.4 mm
Volume	Medium

ELECTRICAL FEATURES

Absolute linearity deviation	1.2 mm
Decay time	0.9 ms
Measuring method for optical distance measurement	Triangulation
Measuring range length	50 mm ... 350 mm
No-load current	100 mA
Number of pins	4
Range	350 mm
Response time	0.9 ms
Response/decay time	0.9 ms
Reverse polarity protection	+
Scanning principle	Reflection sensor
Setting procedure	Teach-In
Short-circuit protection	+
Supply voltage	12 V ... 28 V
Type of analog output	4 mA ... 20 mA
Type of electrical connection	Connector M8
Voltage type	DC
With LED display	+

OPTICAL FEATURES

Light source	Laser diode, red light
Wavelength of the sensor	675 nm

OPTICAL FEATURES

Resolution	400 µm
Light beam form	Point
Teach-in limits distance	5 mm
Light spot, laser focus	0.79 mm²
Light spot range	3.14 mm² ... 3.14 mm²
With background lighting	+
Laser class	Class 2

OTHER FEATURES

Relative linearity deviation	1.2 %

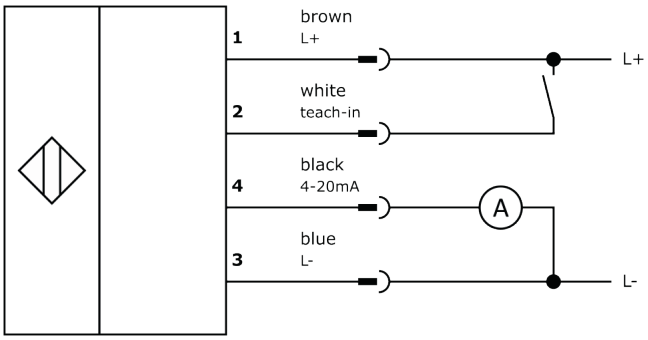
Other

Packaging dimensions	99.0mm x 60mm x 160mm
Shipping weight	0.09kg
Tariff code	85365019

Classification

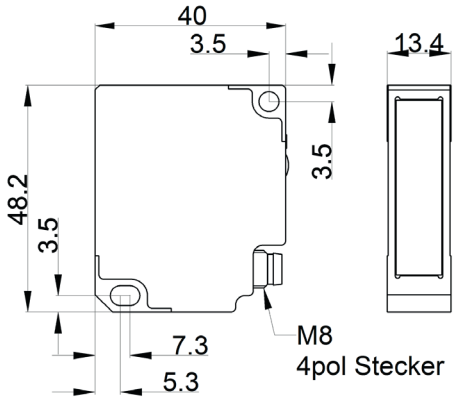
ipf product group	169
eClass 8.0	27270801
eClass 9.0	27270801
eClass 9.1	27270801
ETIM-5.0	EC001825
ETIM-6.0	EC001825
ETIM-7.0	EC001825

Connection



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

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.