

PT160373
LASER SENSORS • DIFFUSE REFLECTION SENSORS WITH BACKGROUND SUPPRESSION

sensor laser, diffuse-reflection sensor, 37x34x12mm, Sn: 16-120, 12-28V DC, 1x PNP NC/NO, Connector M8 4pin, IP67, Zinc die-cast+Glass, 0.16kHz, Background suppression, Laser diode, red light, Point, Teach-In


MECHANICAL FEATURES

Ambient temperature	0 °C ... 50 °C
Degree of protection (IP)	IP67
Design	Cuboid
Housing material	Zinc die-cast
Material of optical surface	Glass
Reflector included in the scope of delivery	-
Sensor height	37 mm
Sensor length	34.5 mm
Sensor width	12.4 mm
Volume	Small

ELECTRICAL FEATURES

Adjustment range	16 mm ... 120 mm
Analog output 0 mA ... 20 mA	-
Analog output 0 V ... 10 V	-
Analog output -10 V ... +10 V	-
Analog output 4 mA ... 20 mA	-
Decay time	4.5 ms
Laser power	1 mW
Max. switching distance	120 mm
Min. switching distance	16 mm
No-load current	80 mA
Number of pins	4
Number of switching outputs	1
Operating voltage	12 V ... 28 V
Rated switching current	100 mA
Rated switching distance	120 mm
Response time	1.5 ms
Reverse polarity protection	+
Scanning function	Light-/dark-on mode
Sensing range	16 mm ... 120 mm
Setting procedure	Teach-In
Short-circuit protection	+

ELECTRICAL FEATURES

Switching frequency	160 Hz
Type of electrical connection	Connector M8
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Voltage drop	2.8 V
Voltage type	DC
With LED display	+
With other analog output	-
With time function	-

OPTICAL FEATURES

Light source	Laser diode, red light
Light spot	0.63 mm ²
Wavelength of the sensor	675 nm
Triangulation	Background suppression
Light beam form	Point
Background suppression	+
Laser class	EV006626

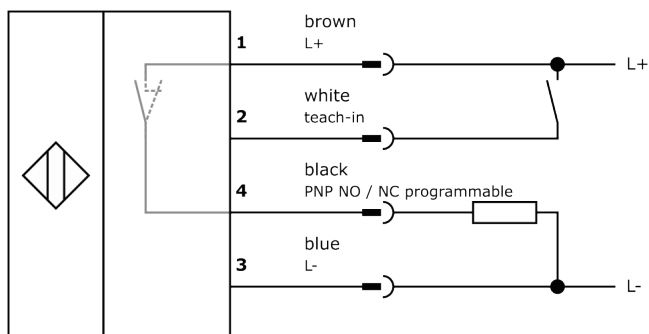
Other

Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.06kg
Tariff code	85365019

Classification

ipf product group	160
eClass 8.0	27270904
eClass 9.0	27270904
eClass 9.1	27270904
ETIM-5.0	EC002719
ETIM-6.0	EC002719
ETIM-7.0	EC002719

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.