IPF ELECTRONIC

DATA SHEET PYSI0215 • Subject to alteration! Version: 03.05.2019

PYSI0215

LASER SENSORS • LINE SENSORS

Optical sensors function contactlessly. They detect objects independent of their characteristics (e.g., shape, color, surface structure, material). The basic operating principle is based on the transmission and reception of light. There are three different versions: 1. The through-beam sensor consists of two separate devices, a transmitter and a receiver that are aligned with one another. If the light beam between the two devices is interrupted, the switching output integrated in the receiver changes its status. 2. With the retro-reflective sensor, the transmitter and receiver are located in one device. The emitted light beam is reflected back to the receiver by a reflector that is to be mounted opposite the device. As soon as the light beam is interrupted, the switching output integrated in the device changes its status. 3. With the diffuse reflection sensor, the transmitter and receiver are in one device. The emitted light beam is reflected by the object that is to be detected. As soon as the receiver detects the reflected light, the switching output integrated in the device changes its status.

MECHANICAL DATA

Housing coating	Nickel-plated
Housing design	Cylinder, screw-thread
Housing material	Brass
Reflector included in the scope of delivery	No
Sensor length	76 mm
Thread pitch	1 mm

ELECTRICAL DATA

IO-Link compatible	No
No-load current	50 mA
Number of pins	7
Operating voltage	5 V ... 5 V
Rated switching distance	0 mm
Relative repeat accuracy	10 µm
Setting procedure	Parameterization
Type of electrical connection	Connector M9
Voltage type	DC
With time function	No

OPTICAL DATA

Laser class	1
Laser protection class	Class 1
Light beam form	Line
Light source	Laser diode, red light

OTHER DATA

Scope of delivery of the one-way system	Transmitter

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1

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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!

2

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