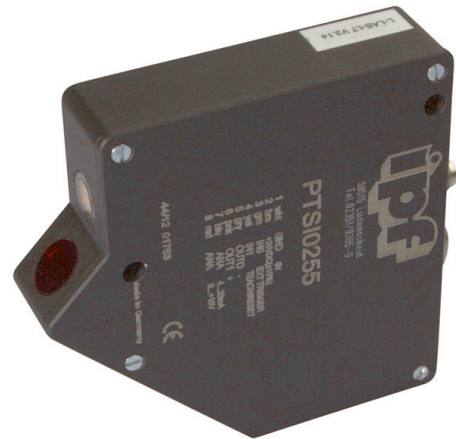


## PTSI0255

### LASER SENSORS • DISTANCE MEASUREMENT

sensor laser, diffuse-reflection sensor, 20x82x80mm, Sn:18.5-22mm, Triangulation, 24V DC, 2x PNP/NPN NC/NO, 0-10V/4-20mA, 8pin, IP54, Aluminum Anodised+Glass, 0.5kHz, RS-232, Laser diode, red light, Line, Parameterization



#### MECHANICAL FEATURES

Ambient temperature	-10 °C ... 50 °C
Degree of protection (IP)	IP54
Design	Cuboid
Housing coating	Anodized
Housing material	Aluminum
Material of optical surface	Glass
Sensor height	20 mm
Sensor length	82.26 mm
Sensor width	80 mm
Volume	Large

#### ELECTRICAL FEATURES

Absolute linearity deviation	0.01 mm
Measuring method for optical distance measurement	Triangulation
Measuring range length	18.5 mm ... 22 mm
No-load current	100 mA
Number of pins	8
Number of switching outputs	2
Range	22 mm
Rated switching current	100 mA
Scanning function	Light-/dark-on mode
Scanning principle	Reflection sensor
Setting procedure	Parameterization
Standard for interfaces	RS-232
Supply voltage	24 V ... 24 V
Switching frequency	500 Hz
Type of analog output	0 V ... 10 V / 4 mA ... 20 mA
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP/NPN
Voltage type	DC

#### OPTICAL FEATURES

Light source	Laser diode, red light
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## OPTICAL FEATURES

Resolution	0 µm
Light beam form	Line
Light spot, laser focus	0.9 mm <sup>2</sup>
Light spot range	0.9 mm <sup>2</sup> ... 0.9 mm <sup>2</sup>
With background lighting	+
Laser class	Class 2
Laser line geometry	0.3x3

## OTHER FEATURES

Relative linearity deviation	0.2 %
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### Other

Packaging dimensions	99.0mm x 60mm x 160mm
Shipping weight	0.21kg
Tariff code	85365019

### Classification

ipf product group	705
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

### Dimensional drawing

### Installation



Mounting / installation may only be carried out by a qualified electrician!

### Disposal



### Software

Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: [www.ipf-electronic.com](http://www.ipf-electronic.com)

### 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.