

**IB120000****INDUCTIVE SENSORS • DISTANCE MEASUREMENT**

sensor inductive, analog, M12x1 50long, Flush, Sn: 1-2, 14-30V DC,  
1 ... 9V, Cable 3pin 2m PVC, IP67, Nickel-plated brass Nickel-plated

**MECHANICAL FEATURES**

Active area material of sensor	Plastic
Ambient temperature	0 °C ... 60 °C
Atmospheric-change resistant (temperature cycle)	-
Cable length	2 m
Degree of protection (IP)	IP67
Design	Cylinder, screw-thread
High-pressure-proof sensors	-
Housing coating	Nickel-plated
Housing material	Nickel-plated brass
Increased ambient temperatures > 80°C	-
Material of cable sheath	PVC
Max. tightening torque	10 Nm
Mechanical mounting condition for sensor	Flush
Number of cores	3
Sensor length	50 mm
Thread length	39 mm
Thread pitch	1 mm
Thread size, metric	12

**ELECTRICAL FEATURES**

Absolute repeat accuracy	0.02 mm
Distance measuring sensors	+
Load resistance (voltage output)	1 kOhm
Magnetic field resistant	-
Measuring range length	1 mm ... 2 mm
No-load current	20 mA
Number of pins	3
Operating voltage	14 V ... 30 V
Residual ripple	0.5 %
Response time	0.5 ms
Reverse polarity protection	+
Short-circuit protection	+
Supply voltage	14 V ... 30 V

## ELECTRICAL FEATURES

Type of analog output 1 ... 9V

Type of electrical connection Cable

Voltage type DC

## OTHER FEATURES

Devices for hose mounting -

Feeding technology -

Harsh environmental conditions -

Metallic sensor surface -

Oil and cooling lubricants -

Ring-shaped sensors -

Welding-proof sensors -

## Other

Packaging dimensions 77.0mm x 25.0mm x 123.0mm

Shipping weight 0.1kg

Tariff code 85365019

## Classification

ipf product group 209

eClass 8.0 27270802

eClass 9.0 27270802

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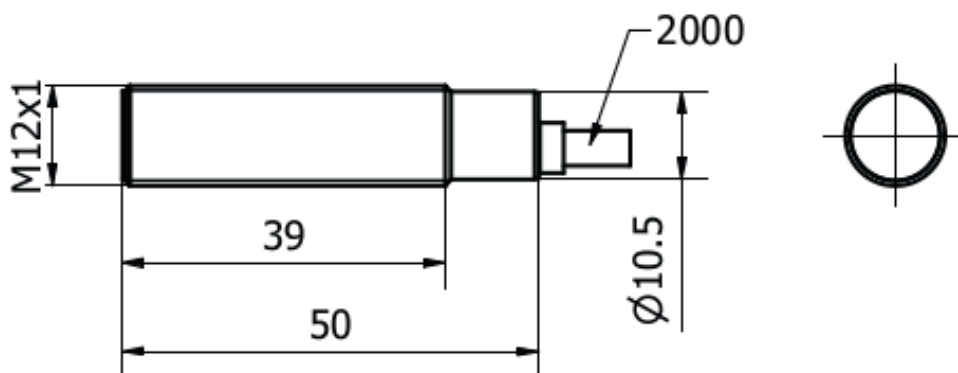
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## Connection

### 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.