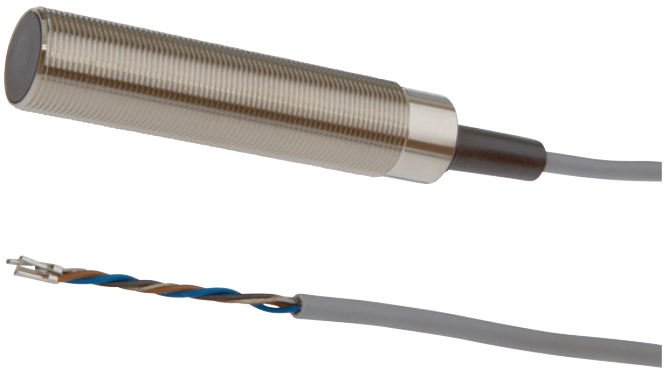
# IB180080

## INDUCTIVE SENSORS • DISTANCE MEASUREMENT

sensor inductive, analog, M18x1 80long, Flush, Sn: 1-4, 18-30V DC, 1 ... 9V, Cable 4pin 2m, IP67, Brass Nickel-plated, resolution 5µm



### MECHANICAL FEATURES

| | |
|---|---|
| Ambient temperature | -10 °C ... 70 °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 | Brass |
| Increased ambient temperatures > 80°C | - |
| Mechanical mounting condition for sensor | Flush |
| Sensor length | 80 mm |
| Thread pitch | 1 mm |
| Thread size, metric | 18 |

### ELECTRICAL FEATURES

| | |
|---|---|
| Absolute repeat accuracy | 0.01 mm |
| Decay time | 2 ms |
| Distance measuring sensors | + |
| Load resistance (current output) | 0.3 kOhm |
| Load resistance (voltage output) | 1 kOhm |
| Magnetic field resistant | - |
| Measuring range length | 1 mm ... 4 mm |
| Number of pins | 4 |
| Operating voltage | 18 V ... 30 V |
| Relative repeat accuracy | 0.01 % |
| Response time | 2 ms |
| Reverse polarity protection | + |
| Short-circuit protection | + |
| Supply voltage | 18 V ... 30 V |
| Type of analog output | 1 ... 9V |
| Type of electrical connection | Cable |
| Voltage drop | 7.2 V |
| Voltage type | DC |

## OPTICAL FEATURES

| | |
|---|---|
| Resolution | 5 µm |

## OTHER FEATURES

| | |
|---|---|
| Devices for hose mounting | - |
| Feeding technology | - |
| Harsh environmental conditions | - |
| Hygienic and wet area | - |
| Metallic sensor surface | - |
| Oil and cooling lubricants | - |
| Ring-shaped sensors | - |
| Welding-proof sensors | - |

### Other

| | |
|---|---|
| Packaging dimensions | 70mm x 40mm x 125.0mm |
| Shipping weight | 0.15kg |
| Tariff code | 85365019 |

### Classification

| | |
|---|---|
| ipf product group | 209 |
| eClass 8.0 | 27270802 |
| eClass 9.0 | 27270802 |
| eClass 9.1 | 27270802 |
| ETIM-5.0 | EC001818 |
| ETIM-6.0 | EC001818 |
| ETIM-7.0 | EC001818 |

## 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.



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