

**IO050176**
**INDUCTIVE SENSORS • FULL-METAL HOUSING**

sensor inductive, all-steel, M5x0.5 30long, Non-flush, Sn: 3, 10-30V DC, 85°C, PNP NO, IO-Link, Cable connector M8 3pin 0.2m PUR (Polyurethane), IP67, Stainless steel 1.4305, Static, factor 1


**MECHANICAL FEATURES**

Active area material of sensor	Stainless steel 1.4301
Alignment of cable entry	Axial
Ambient temperature	-25 °C ... 85 °C
Cable infeed	Axial
Cable length	0.2 m
Degree of protection (IP)	IP67
Design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Material independent sensors (factor 1)	+
Material of cable sheath	PUR (Polyurethane)
Material thickness	0.22 mm
Max. tightening torque	1 Nm
Mechanical mounting condition for sensor	Non-flush
Number of cores	3
Pressure-proof	-
Sensor length	30 mm
Thread length	28 mm
Thread pitch	0.5 mm
Thread size, metric	5
Wire cross section	0.06 mm <sup>2</sup>

**ELECTRICAL FEATURES**

Cascadable	-
Correction factor (aluminum)	1
Correction factor (brass)	1.35
Correction factor (copper)	0.95
Correction factor (St37)	1
Correction factor (stainless steel V2A: 1mm)	0.4
Correction factor (stainless steel V2A: 2mm)	0.85
Hysteresis	20 %
IO-Link compatible	+
Max. line length	300 m
No-load current	10 mA

## ELECTRICAL FEATURES

Norm measuring plate	9x9x1
Number of pins	3
Operating voltage	10 V ... 30 V
Rated switching current	200 mA
Readiness delay	10 ms
Relative repeat accuracy	5 %
Residual ripple	20 %
Reverse polarity protection	+
Short-circuit protection	+
Suitable for safety functions	-
Supply voltage	10 V ... 30 V
Switching behavior of the output	Static
Switching distance	3 mm
Switching frequency	1200 Hz
Type of electrical connection	Cable connector M8
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	+
With LED display (functional reserve)	+
With monitoring function of downstream devices	-

## OTHER FEATURES

Harsh environmental conditions	+
Hygienic and wet area	+
Metallic sensor surface	+
Oil and cooling lubricants	+

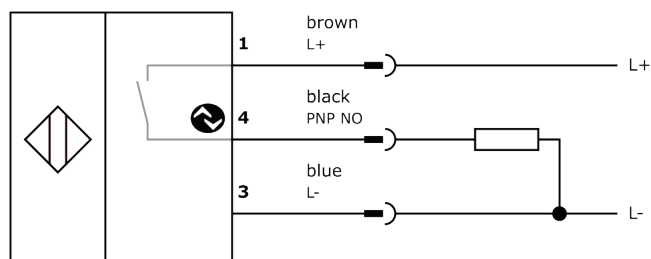
## Other

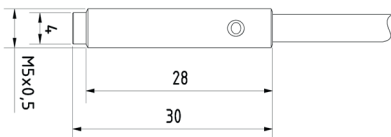
Packaging dimensions	100mm x 20mm x 120mm
Shipping weight	0.02kg
Tariff code	85365019

## Classification

ipf product group	205
eClass 8.0	27270101
eClass 9.0	27270101
eClass 9.1	27270101
ETIM-5.0	EC002714
ETIM-6.0	EC002714
ETIM-7.0	EC002714

## 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.