

 **REER**

*Your future's safe!*



**PI-Safe**

inductive safety sensors

*short form*

A complete range of sensors for positioning detection ...



Certification to EN 60947-5-3 ●  
Ensuring operator and machine safety ●

● No special actuator required  
● Connection to a Safety PLC or Safety Controller

**PI-Safe**  
proximity inductive safety sensors

**πS**

# πS

## Guaranteed safety

PI-Safe safety sensors increase the uptime and safety of installations and can be connected to approved evaluation units without cross-fault monitoring.

PI-Safe can generally be installed in all those applications that require a non-contact and safe detection of a metal object.

Applications include reliable positioning on rotary indexing tables and machine tools, safe triggering of slow travel or switching off in end positions for presses, gantry robots and actuators .

Wear-free operation guarantees low maintenance costs. Faults such as coil break or coil short circuit are diagnosed switching the sensor into the defined safe state. Even a cross fault between the supply voltage and one of the two outputs does not affect the safety function of the sensor.

proximity  
inductive  
safety  
sensors



**TUVNORD**

according to  
EN 60947-5-3  
IEC 61508  
ISO 13849

# Proximity inductive safety sensors

An extensive range of positioning sensors

## PI M12 NF

M12 x 1 / L = 70 mm  
Non-flush mounted



P/N 1293000

### Characteristics

*Enable zone*

0.5...4 mm

*Operating voltage DC*

19.2...30 V

*Current rating*

100 mA

*Materials*

Body: stainless steel; Head: PBT

*Classification*

SIL2 / PLd

## PI M18 NF

M18 x 1 / L = 70,5 mm  
Non-flush mounted



P/N 1293001

### Characteristics

*Enable zone*

1...8 mm

*Operating voltage DC*

19.2...30 V

*Current rating*

100 mA

*Materials*

Body: stainless steel; Head: PBT

*Classification*

SIL2 / PLd

## PI M18 F

M18 x 1 / L = 70 mm  
Flush mounted



P/N 1293002

### Characteristics

*Enable zone*

1...5 mm

*Operating voltage DC*

19.2...30 V

*Current rating*

100 mA

*Materials*

Body: brass white bronze coated;

Head: PBT

*Classification*

SIL2 / PLd

## Key characteristics

*Product designation*

Fail-safe inductive sensor

*Output*

2 x OSSD

*Voltage type and Electrical design*

DC PNP

*Connection*

M12 4-pole connector

*Protection grade*

IP65 and IP67

*Ambient temperature*

-25...70 °C

*Display*

Operation: green LED; Signal: yellow LED

*Protection class*

III

## PI M18 F R

M18 x 1 / L = 86.5 mm  
Flush mounted



P/N 1293003

### Characteristics

*Enable zone*

> 10 mm

*Operating voltage DC*

10...30 V

*Current rating*

50 mA

*Materials*

Body: brass white bronze coated;

Head: PBT

*Classification*

SIL2 / PLd

## PI M30 NF

M30 x 1.5 / L = 70 mm  
Non-flush mounted



P/N 1293004

### Characteristics

*Enable zone*

1...15 mm

*Operating voltage DC*

19.2...30 V

*Current rating*

100 mA

*Materials*

Body: stainless steel; Head: PBT

*Classification*

SIL2 / PLd

## PI M30 F

M30 x 1.5 / L = 70 mm  
Flush mounted



P/N 1293005

### Characteristics

*Enable zone*

1...10 mm

*Operating voltage DC*

19.2...30 V

*Current rating*

100 mA

*Materials*

Body: brass white bronze coated;

Head: PBT

*Classification*

SIL2 / PLd

## Accessories

### Angle brackets

For mounting cylindrical sensors  
Easy, quick and inexpensive fixing  
Robust stainless steel design for use in harsh industrial environments  
For free-standing mounting



### M12 Angle bracket

P/N 1293100

### Mounting clamps

End stop for defined installation position  
Safe fixing of the sensor with click-fit mounting  
For mounting cylindrical sensors  
Easy, quick and inexpensive fixing  
Reliable mounting on a surface by means of two screws



### M12 Mounting clamp

P/N 1293103

# PI-Safe

## PI M30 NF K

M30 x 1.5 / L = 80 mm  
Non-flush mounted



IP69K

P/N 1293006

### Characteristics

*Enable zone*  
6...12 mm  
*Operating voltage DC*  
19.2...30 V  
*Current rating*  
100 mA  
*Materials*  
Body: stainless steel; Head: PBT  
*Classification*  
SIL3 / PLe

## PI SQ F-NF

40 x 40 x 66 mm  
Flush/Non-flush mounted



P/N 1293007

### Characteristics

*Enable zone*  
10...15 mm  
*Operating voltage DC*  
19.2...30 V  
*Materials*  
Body: diecast zinc; Head: PPE  
*Classification*  
SIL3 / PLe

## PI SQ NF

40 x 40 x 66 mm  
Non-flush mounted



P/N 1293008

### Characteristics

*Enable zone*  
4...20 mm  
*Operating voltage DC*  
19.2...30 V  
*Materials*  
Body: diecast zinc; Head: PPE  
*Classification*  
SIL3 / PLe



### M18 Angle bracket

P/N 1293101



### M30 Angle bracket

P/N 1293102



### M18 Mounting clamp

P/N 1293104



### M30 Mounting clamp

P/N 1293105



*Your future's safe!*

### More than 60 years of quality and innovation

Founded in Turin, Italy in 1959, ReeR distinguished itself for its strong commitment to innovation and technology.

A steady growth throughout the years allowed ReeR to become a point of reference in the safety automation industry at a worldwide level.

The Safety Division is in fact today a world leader in the development and manufacturing of safety optoelectronic sensors and controllers.

ReeR is ISO 9001, ISO 14001 and ISO 45001 certified.



**ReeR SpA**  
Via Carcano, 32  
10153 Torino, Italy

T +39 011 248 2215  
F +39 011 859 867

[www.reersafety.com](http://www.reersafety.com) | [info@reer.it](mailto:info@reer.it)



Issue 2 - Rev. 1.4  
September 2022  
8946025  
Brochure PI-SAFE - English

*Printed in Italy*

