



PI-Safe

inductive safety sensors

short form

A complete range of sensors for positioning detection ...

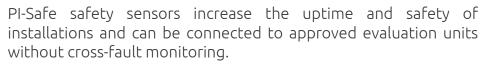


PI-Safe proximity inductive safety sensors





Guaranteed safety



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



Proximity inductive safety sensors

An extensive range of positioning sensors

PIM12 NF

 $M12 \times 1 / L = 70 \text{ mm}$ Non-flush mounted

PI M18 NF

 $M18 \times 1 / L = 70,5 \text{ mm}$ Non-flush mounted

PI M18 F

 $M18 \times 1 / L = 70 \text{ mm}$ Flush mounted



P/N 1293000



P/N 1293001



P/N 1293002

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

Characteristics

Enable zone 1...8 mm Operating voltage DC 19.2...30 V Current rating 100 mA

Body: stainless steel; Head: PBT Classification

SIL2 / PLd

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

Ш

PIM18FR

M18 x 1 / L = 86.5 mmFlush mounted

PIM30 NF

 $M30 \times 1.5 / L = 70 \text{ mm}$ Non-flush mounted

PI M30 F

 $M30 \times 1.5 / L = 70 \text{ mm}$ Flush mounted



P/N 1293003



P/N 1293004



P/N 1293005

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

Characteristics

Enable zone
1...15 mm
Operating voltage DC
19.2...30 V
Current rating
100 mA

SIL2 / PLd

Materials
Body: stainless steel; Head: PBT
Classification

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

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 Angle bracket P/N 1293100



M12 Mounting clamp
P/N 1293103

PI-Safe

PIM30 NF K

 $M30 \times 1.5 / L = 80 \text{ mm}$ Non-flush mounted

PI SQ F-NF

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

PI SQ NF

40 x 40 x 66 mm Non-flush mounted



IP69K



P/N 1293007



P/N 1293008

Characteristics

P/N 1293006

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

Characteristics

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

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





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 | info@reer.it













Issue 2 - Rev. 1.3 June 2020 8946025 Brochure PI-SAFE - English

Printed in Italy

