

Pepperl+Fuchs NJ15-30GK50-E2-30M

Inductive Proximity Sensor

Product scope

- Detects conductive metal targets across a 15 mm rated non-contact sensing distance.
- Provides a three-wire PNP normally open signal for standard DC controller inputs.
- Uses an integral 30 m PVC cable where the connection point is distant from the machine position.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Pepperl+Fuchs NJ15-30GK50-E2-30M

Inductive Proximity Sensor

Product overview

Pepperl+Fuchs NJ15-30GK50-E2-30M is a non-flush M30 inductive proximity sensor with 15 mm rated sensing distance, PNP normally open output and an integral 30 m PVC cable. It detects metal targets in industrial position and presence applications.

NJ15-30GK50-E2-30M combines an M30 threaded PBT body with a long factory-fitted cable for installations where a junction point is remote from the sensing position. The E2 output is a three-wire PNP normally open interface operating from 10 to 60 V DC.

A high-frequency magnetic field at the sensing face is damped by an approaching metal target, changing the transistor output without physical contact. The 500 Hz switching capability supports routine position confirmation on moving machine parts.

The sensor is specified for non-flush mounting, so surrounding metal clearance and target geometry affect usable range. Cable routing, supply polarity and input compatibility must be reviewed before replacing a shorter-lead or different-output NJ15 variant.

Technical specifications

Rated sensing distance	15 mm
Mounting style	Non-flush
Output function	PNP, normally open
Electrical connection	3-wire
Operating voltage	10 to 60 V DC
Switching frequency	0 to 500 Hz
Load current	0 to 200 mA
Voltage drop	2.8 V maximum
No-load current	9 mA maximum
Off-state current	0.5 mA maximum
Time delay before availability	50 ms maximum
Short-circuit protection	Pulsing
Reverse-polarity protection	Provided
Cable length	30 m
Cable material	PVC
Conductor cross-section	0.75 mm ²
Housing material	PBT
Sensing face material	PBT
Degree of protection	IP68
Ambient temperature	-25 to 70 °C
Thread	M30 x 1.5
Body length	55 mm
Product standard	EN 60947-5-2 / IEC 60947-5-2

NJ15-30GK50-E2-30M function and operating principle

Ordered configuration

The complete suffix identifies the E2 PNP output and the factory-installed 30 m lead.

System role

It provides wear-free target detection for industrial sequence and interlock logic.

Selection and installation

Non-flush clearance, target material and cable termination must match the original installation to preserve switching margin.

Functional path

- Detects conductive metal targets across a 15 mm rated non-contact sensing distance.
- Provides a three-wire PNP normally open signal for standard DC controller inputs.
- Uses an integral 30 m PVC cable where the connection point is distant from the machine position.

Application scenarios

- Conveyor frames can confirm pallet or metal carrier presence without a mechanical limit switch.
- Material-handling machines use the long cable to reach a protected junction enclosure away from the sensing point.
- Outdoor or wash-prone equipment benefits from the IP68 housing when the cable entry and termination remain properly protected.

NJ15-30GK50-E2-30M engineering checks

Performance

- The 15 mm rated distance applies with the documented standard target and non-flush mounting geometry.
- A switching frequency up to 500 Hz supports responsive position feedback on ordinary machine motion.
- The PNP output can supply as much as 200 mA while maintaining the specified voltage-drop limit.

Environmental Ratings

- The molded sensor body and cable entry carry an IP68 degree of protection.
- Permissible ambient temperature extends from -25 to 70 °C.
- PBT housing and sensing-face materials provide a durable nonmetallic exterior for industrial service.

Certifications

- Electrical behavior is specified to EN 60947-5-2 and IEC 60947-5-2.
- The product documentation lists cULus, cCSAus and CCC approvals for the applicable sensor execution.
- Installation must still follow the approval conditions and the ratings of the connected control circuit.

Critical technical note

Mount NJ15-30GK50-E2-30M non-flush with the required metal clearance; embedding the sensing face can reduce range or cause false operation.

The technical content in this document is limited to the exact product identity shown above and the verified manufacturer material used for preparation.



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