NJ15-30GK50-E2-30M

Inductive Sensor

PUBLISHED IDENTITY

Pepperl+Fuchs NJ15-30GK50-E2-30M is a non-flush inductive proximity sensor with a 15 mm nominal sensing distance. Its three-wire PNP normally-open output is supplied through an integral 30 m PVC cable.

Technical snapshot

Sensor type	Inductive proximity sensor
Output function	PNP, normally open
Wiring	Three-wire
Nominal sensing distance	15 mm
Assured operating range	0–12.15 mm
Mounting	Non-flush
Operating voltage	10–60 V DC
Switching frequency	0–500 Hz

Verified related ApterPower product pages

Pepperl+Fuchs HD2-DM-B

Pepperl+Fuchs KFD2-SOT3-Ex1.LB

Engineering data

Official evidence organized for exact-model review

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Wiring	Three-wire
Nominal sensing distance	15 mm
Assured operating range	0–12.15 mm
Mounting	Non-flush
Operating voltage	10–60 V DC
Switching frequency	0–500 Hz

Operating current	0–200 mA
No-load current	9 mA maximum
Readiness delay	50 ms maximum
Cable	30 m PVC, 0.75 mm² conductors
Housing and sensing face	PBT
Degree of protection	IP68
Ambient temperature	-25 to 70 °C

EVIDENCE BOUNDARY

Verify the complete NJ15-30GK50-E2-30M suffix, target material, non-flush mounting, supply polarity and 30 m cable route before replacement.

Applications and system role

Four distinct documented operating contexts

POSITION DETECTION

Non-contact detection of a suitable metal target in documented machinery and automation positions.

END-POSITION FEEDBACK

PNP normally-open feedback for mechanisms whose target and non-flush mounting match the approved design.

LONG CABLE RUNS

Installations requiring the exact integral 30 m PVC cable supplied with this sensor variant.

WASHDOWN-PROTECTED AREAS

IP68 sensing points operated within the published temperature, voltage and environmental limits.

Integration control

This non-flush PBT-bodied sensor provides an assured operating distance of 0–12.15 mm and supports switching frequencies up to 500 Hz. The output is protected against reverse polarity and pulsing short circuit, while the 30 m cable uses 0.75 mm² conductors. Installation must preserve the documented target geometry, non-flush mounting and cable identification.

Verified related ApterPower product pages

Pepperl+Fuchs MBHC-FB-4R

Technical questions

Complete model-specific answers from the approved evidence set

What type of device is NJ15-30GK50-E2-30M?

The NJ15-30GK50-E2-30M is a non-flush inductive proximity sensor with a PNP normally-open output.

How far can the Pepperl+Fuchs sensor detect its target?

The Pepperl+Fuchs sensor has a 15 mm nominal sensing distance and a 0–12.15 mm assured operating range.

Which supply voltage does NJ15-30GK50-E2-30M require?

The NJ15-30GK50-E2-30M requires a 10–60 V DC operating supply.

What switching frequency is specified for this NJ15 sensor?

This NJ15 sensor supports a switching frequency from 0 to 500 Hz.

How is the output of NJ15-30GK50-E2-30M protected?

The output of NJ15-30GK50-E2-30M includes reverse-polarity protection and pulsing short-circuit protection.

Which cable is supplied with the E2-30M variant?

The E2-30M variant is supplied with an integral 30 m PVC cable using 0.75 mm² conductors.

What environmental limits apply to NJ15-30GK50-E2-30M?

The NJ15-30GK50-E2-30M is rated IP68 and operates from -25 to 70 °C.

What must be checked after installing the Pepperl+Fuchs proximity sensor?

The technician must cycle the approved target and verify stable PNP switching at the documented operating distance after installation.

Product precautions

Eight aligned controls before return to service

1. Record the complete NJ15-30GK50-E2-30M marking and installed target position.
2. Isolate the 10–60 V DC circuit and prove the conductors safe before work.
3. Verify PNP normally-open logic against the controller input before connection.
4. Preserve non-flush mounting and the approved metal target geometry.
5. Protect the integral 30 m PVC cable from cuts, crushing and excessive bend stress.
6. Check polarity, load current and short-circuit conditions before energization.
7. Set the operating distance within the assured 0–12.15 mm range.
8. Cycle the target and record stable switching and final acceptance results.

Verified related ApterPower product pages

Evidence and support

Manufacturer references, related products and direct contact

Manufacturer evidence used

- Pepperl+Fuchs product data sheet for NJ15-30GK50-E2-30M, document 037694.

Verified related ApterPower product pages

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