NJ15-30GK50-E2-30M

Exact-identity installation and commissioning guide

PRODUCT SCOPE

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.

Verified installation basis

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

Verified related ApterPower product pages

Pepperl+Fuchs HD2-DM-B

Pepperl+Fuchs KFD2-SOT3-Ex1.LB

Pre-work control

Record the installed system before any disconnection

Required checks

- Record the complete NJ15-30GK50-E2-30M marking and installed target position.
- Isolate the 10–60 V DC circuit and prove the conductors safe before work.
- Verify PNP normally-open logic against the controller input before connection.
- Preserve non-flush mounting and the approved metal target geometry.
- Protect the integral 30 m PVC cable from cuts, crushing and excessive bend stress.
- Check polarity, load current and short-circuit conditions before energization.

HOLD POINT

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

Evidence to retain

- Complete product and installed-unit marking.
- Approved project, wiring and cabinet records.
- As-found connector, cable, address and diagnostic state.
- Acceptance plan and final results.

Verified related ApterPower product pages

Pepperl+Fuchs MBHC-FB-4R

Installation sequence

Use the approved manufacturer procedure and site work controls

1 IDENTIFY

Record the complete NJ15-30GK50-E2-30M marking and installed target position.

2 ISOLATE

Isolate the 10–60 V DC circuit and prove the conductors safe before work.

3 RECORD

Verify PNP normally-open logic against the controller input before connection.

4 VERIFY

Preserve non-flush mounting and the approved metal target geometry.

5 INSTALL

Protect the integral 30 m PVC cable from cuts, crushing and excessive bend stress.

6 RESTORE

Check polarity, load current and short-circuit conditions before energization.

CONFIGURATION 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

Commissioning and acceptance

Return each affected function to its approved state

Identity	Record the complete NJ15-30GK50-E2-30M marking and installed target position.
Configuration	Check polarity, load current and short-circuit conditions before energization.
Physical installation	Set the operating distance within the assured 0–12.15 mm range.
Functional acceptance	Cycle the target and record stable switching and final acceptance results.
Diagnostics	Confirm that no unexplained product, communication or system diagnostic remains.
Release record	Document the final configuration, observed states, test results and responsible technician.

Verified related ApterPower product pages

Handover record

Traceable evidence for the installed product

Final acceptance

- Protect the integral 30 m PVC cable from cuts, crushing and excessive bend stress.
- Check polarity, load current and short-circuit conditions before energization.
- Set the operating distance within the assured 0–12.15 mm range.
- Cycle the target and record stable switching and final acceptance results.

Manufacturer evidence used

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

Verified related ApterPower product pages

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