

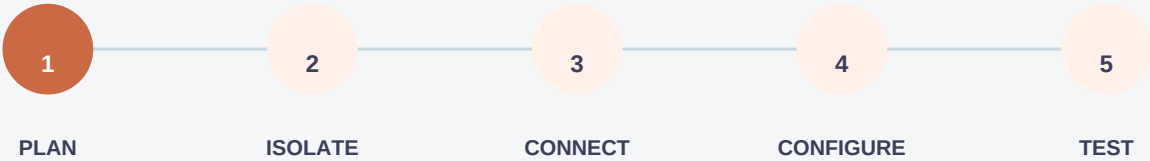
II5910

II5910 Inductive Sensor

CONTROLLED ENGINEERING COPY

IFM II5910 is a flush-mountable M30 inductive sensor with a 15 mm sensing range and PNP normally-open switching output. It operates from 10 to 32 V DC and uses a gold-contact M12 connector.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	II5910
Manufacturer	IFM
System family	IFM inductive sensors
Record scope	Installation, application and verification



APTER POWER SALES TEAM

WHATSAPP / PHONE

EMAIL

WEBSITE

+86 180 3023 5313

sales13@apterpower.com

www.apterpower.com

01 PRE-INSTALLATION PLAN

- 1

Confirm the II5910 and IIA3015BBPKG/US-104 markings.
- 2

Place the machine and input channel in the approved maintenance state.
- 3

Isolate the 10 to 32 V DC sensor circuit before disconnection.
- 4

Record target material, sensing gap, connector pinout and input assignment.
- 5

Keep the sensor flush-mounted and within the 0 to 12.15 mm operating distance.

MATCHED HARDWARE

- IFM II5910 with exact visible identity
- Matched IFM inductive sensors host
- Documented power, field and communication interfaces
- Approved configuration and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	II5910 recorded
Physical interface	Installed terminals, ports and signals matched to the as-found record
Configuration	Approved host and channel configuration restored
Functional proof	Controlled test confirms non-contact metal target detection with a PNP normally-open output

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Product type	Inductive sensor
Type designation	IIA3015BBPKG/US-104
Electrical design	PNP
Output function	Normally open
Sensing range	15 mm
Real sensing range	15 mm +/- 10%
Operating distance	0 to 12.15 mm
Operating voltage	10 to 32 V DC
Current consumption	10 mA
Maximum output voltage drop	2.5 V DC
Continuous output current	200 mA
Switching frequency	100 Hz
Reverse-polarity protection	Yes

RELATED PRODUCT PAGES

1 ABB DLM02

2 ABB DSTD196 3BSE004725R1

3 ABB PFTK101A YM222001-UC

4 ABB PM566-TP-ETH 1SAP121500R0071

5 ABB PM511V08 3BSE011180R1

6 ABB FPBA-01-M

7 ABB FEN-21 68679303

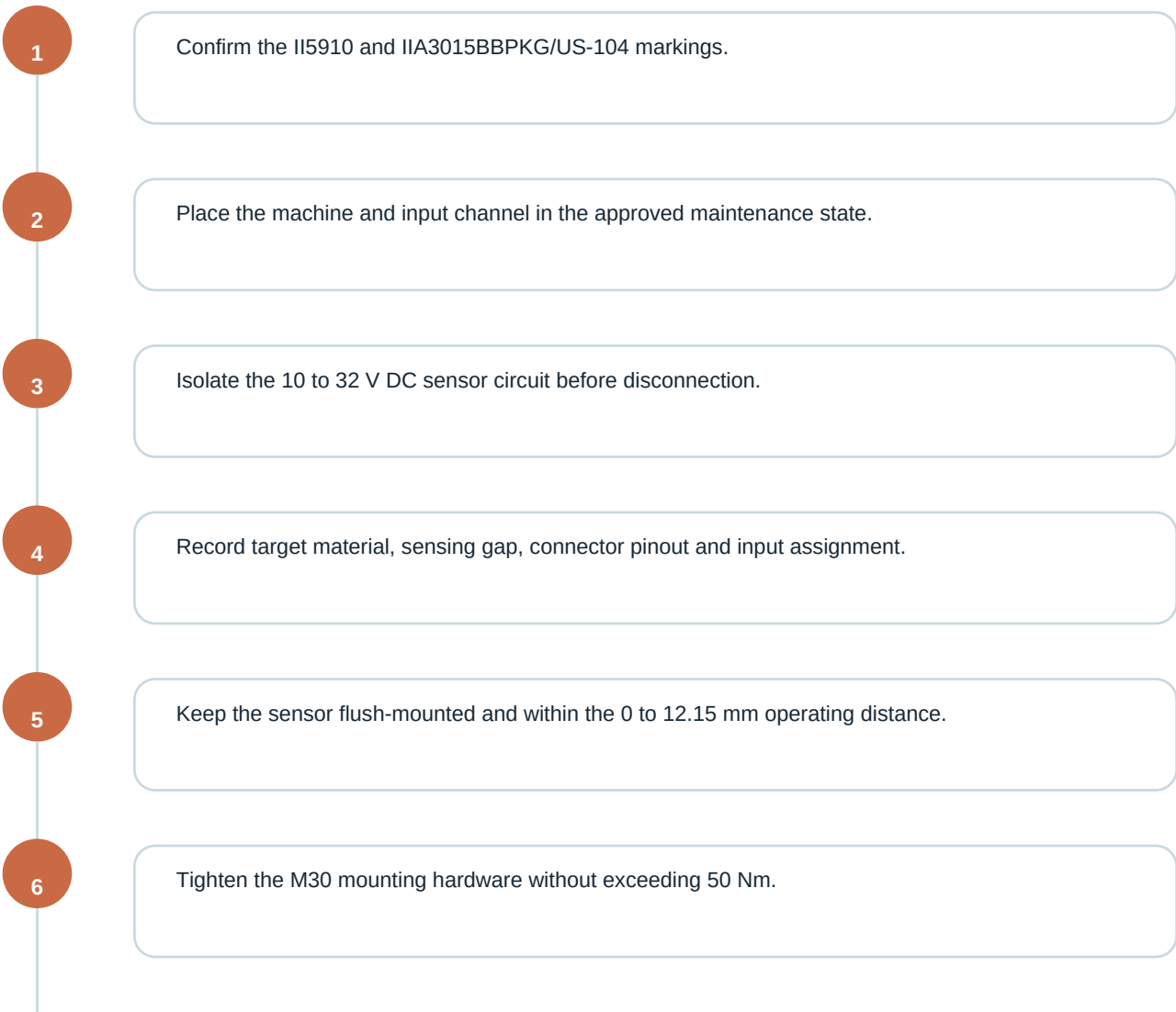
8 ABB FEIP-21 3AXD50000192793

9 ABB INTKM01

FIELD NOTE

Confirm II5910, its exact IFM inductive sensors role, installed position, power, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	II5910
Physical interface	Installed terminals, ports and signals matched to the as-found record
Configuration	Approved host and channel configuration restored
Functional proof	Controlled test confirms non-contact metal target detection with a PNP normally-open output

04 RETURN-TO-SERVICE RECORD

- ☐
- Keep the sensor flush-mounted and within the 0 to 12.15 mm operating distance.

☐☐☐

VERIFICATION RECORD

PRODUCT IDENTITY	II5910
INSTALLED POSITION	Documented IFM inductive sensors position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐
- Keep the sensor flush-mounted and within the 0 to 12.15 mm operating distance.

☐☐☐

SOURCE IDENTIFIERS

IFM II5910-06 Product Data Sheet, 15 January 2024 | IFM official exact-product data sheet