

FC-SDI-1624

Safe Digital Input Module

CONTROLLED ENGINEERING COPY

Isolate internal and external supplies, record every input state and field-return path, then simulate both LOW and HIGH conditions before releasing the safety function.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	FC-SDI-1624
Manufacturer part	FC-SDI-1624
Hardware type	16
System family	Honeywell Safety Manager



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete FC-SDI-1624 marking and its assigned sixteen-channel safe-input position before work.
- 2

Place the connected process and control strategy in the approved maintenance state.
- 3

Isolate the applicable cabinet supply and 24 V input field energy before disconnecting conductors.
- 4

Record terminal numbers, channel assignments, polarity, shields and configured ranges before removal.
- 5

Use ESD controls and protect the backplane connector, terminal hardware and coated electronics.

MATCHED HARDWARE

- Safety Manager I/O chassis
- 24 V DC field supply
- safety switches and contacts
- validated safety input application

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	FC-SDI-1624 / FC-SDI-1624 recorded
Physical interface	Safety Manager I/O chassis
Companion check	24 V DC field supply
Functional proof	Monitors sixteen safe discrete channels
Application test	Emergency-stop input acquisition

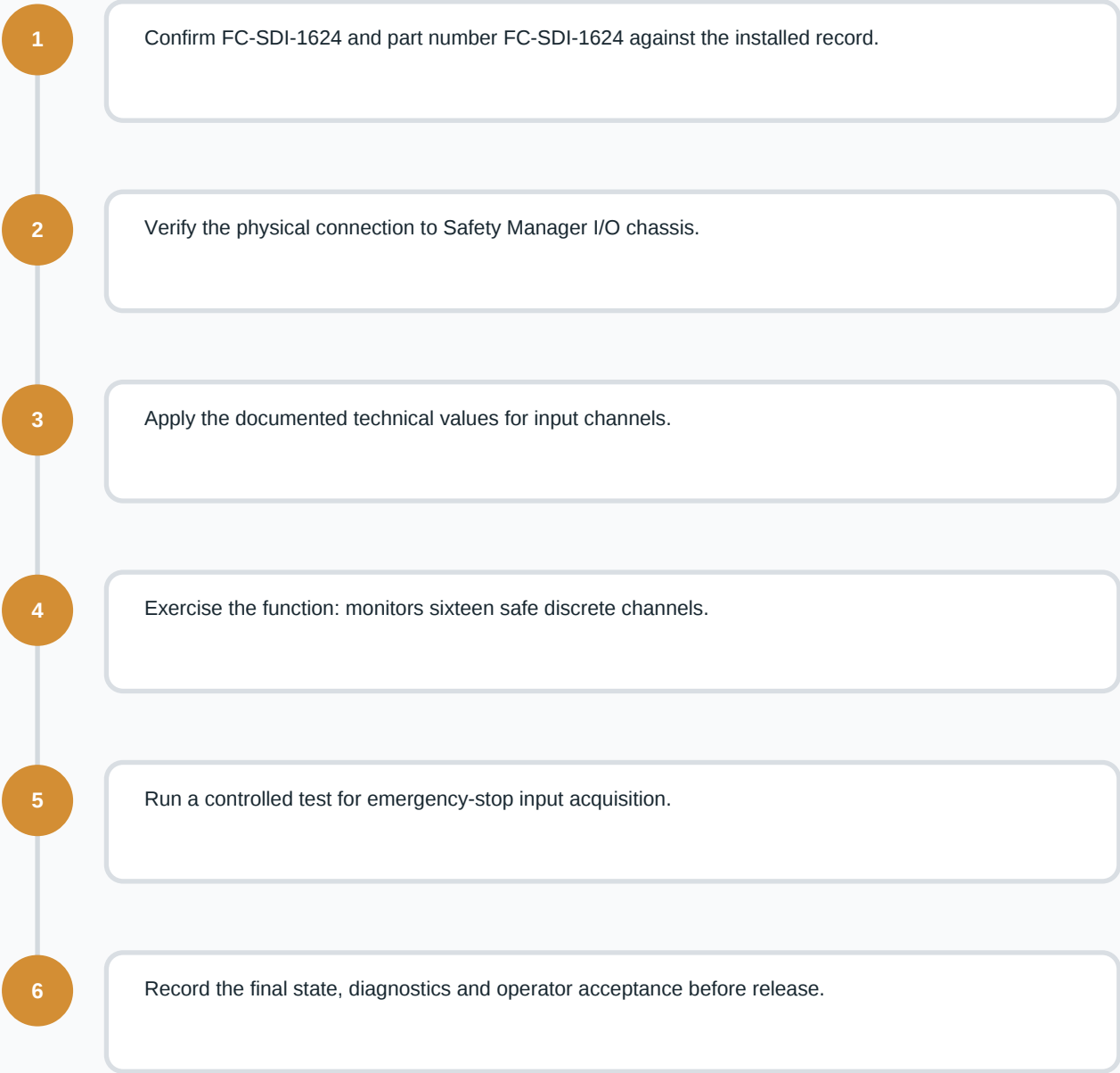
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Input channels	16
Nominal input	24 V DC
Input current	7 mA at 24 V DC
Maximum input voltage	36 V DC
HIGH threshold	>15 V DC
LOW threshold	<9 V DC; <2 mA
Input delay	10 ms typical
Maximum input capacitance	100 nF
Output type	24 V DC solid-state; short-circuit proof
Maximum output current	450 mA
Maximum output capacitance	32 uF
Output voltage drop	<1.5 V at 450 mA
5 V DC current	8 mA
24 V DC internal current	110 mA

FIELD NOTE

Isolate internal and external supplies, record every input state and field-return path, then simulate both LOW and HIGH conditions before releasing the safety function.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	FC-SDI-1624 / FC-SDI-1624 recorded
Physical interface	Safety Manager I/O chassis
Companion check	24 V DC field supply
Functional proof	Monitors sixteen safe discrete channels
Application test	Emergency-stop input acquisition

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed Safety Manager I/O chassis and carrier arrangement against the approved project.
- ☐
- Restore power in a controlled sequence and clear only diagnostics created by the maintenance activity.
- ☐
- Complete LOW/HIGH transition and diagnostic tests on every active channel and retain the measured result before returning the channel to automatic service.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	FC-SDI-1624
INSTALLED POSITION	Documented Honeywell Safety Manager position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
MC-TAOX52	Related industrial automation product	View MC-TAOX52 page
CC-TAON01	Related industrial automation product	View CC-TAON01 page
FTA-T-15	Related industrial automation product	View FTA-T-15 page
FC-TSDI-1624	Related industrial automation product	View FC-TSDI-1624 page
05704-A-0144	Related industrial automation product	View 05704-A-0144 page
05701-A-0361	Related industrial automation product	View 05701-A-0361 page
05701-A-0325	Related industrial automation product	View 05701-A-0325 page
51403519-160	Related industrial automation product	View 51403519-160 page

SOURCE IDENTIFIERS

Honeywell Safety Manager Hardware Reference
EP-SM.MAN.6284, Issue 1.10

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