

FC-SDOL-0424

High-Current Safe Digital Output Module

CONTROLLED ENGINEERING COPY

Calculate the channel and total load currents, isolate both 24 V supplies, record safe-state behavior and prove current sensing and final-element action after installation.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	FC-SDOL-0424
Manufacturer part	FC-SDOL-0424
Hardware type	4
System family	Honeywell Safety Manager



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete FC-SDOL-0424 marking and its assigned four-channel high-current safe-output 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 high-current output 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 external field supply
- high-current safety final elements
- validated safety application

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	FC-SDOL-0424 / FC-SDOL-0424 recorded
Physical interface	Safety Manager I/O chassis
Companion check	24 V DC external field supply
Functional proof	Provides four high-current safe output channels
Application test	Large shutdown-solenoid actuation

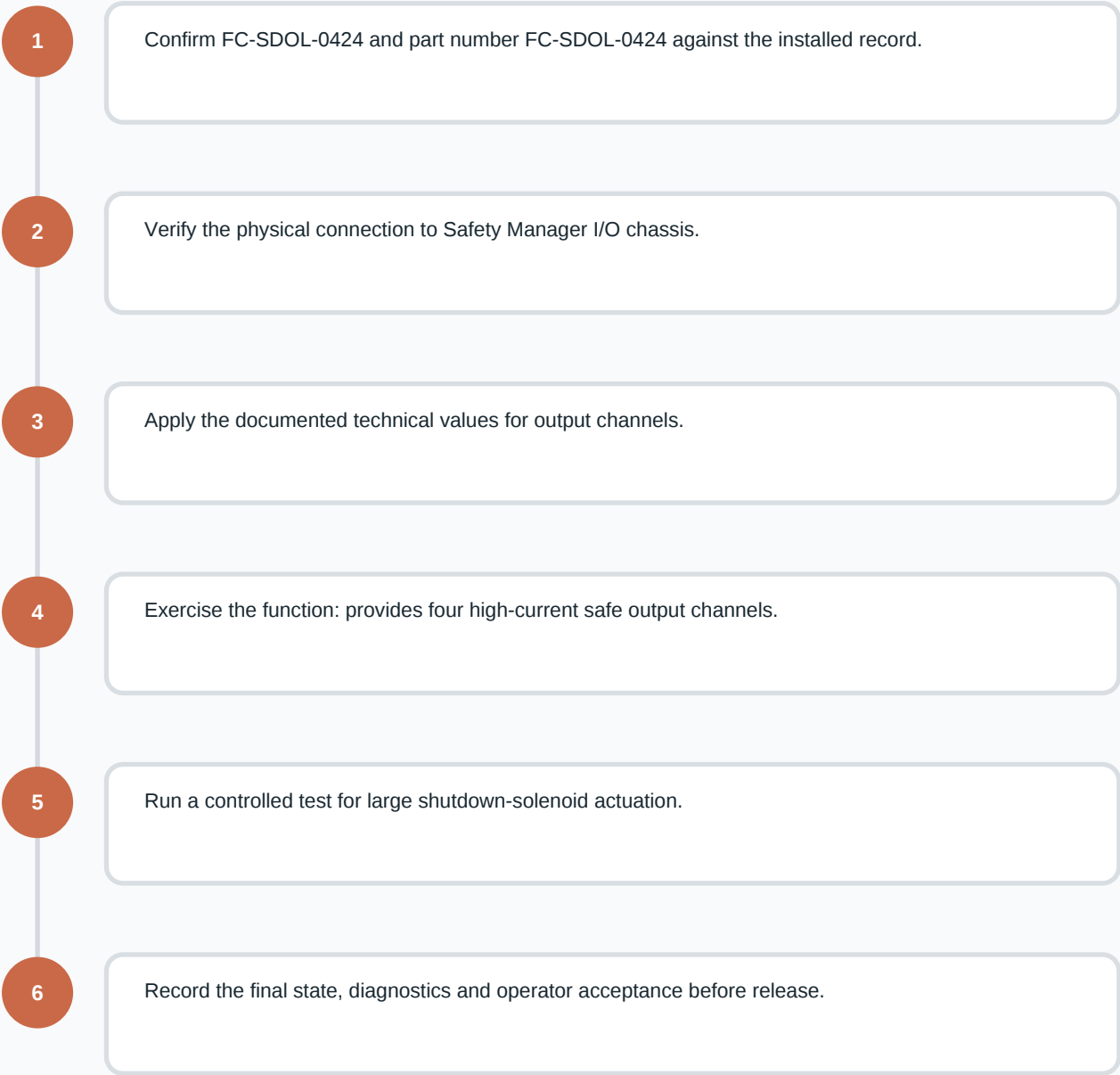
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Output channels	4
Output type	24 V DC solid-state source
Output protection	Short-circuit proof
Maximum channel current	1 A
Maximum total current	3.6 A
Maximum load inductance	0.5 H
Maximum load capacitance	1 uF
Voltage drop	<1.3 V at 1 A
Off-state current	<0.1 mA
Current-sense voltage drop	<1 V at 1 A
Overload threshold	>10 Ohm
Lamp threshold	>20 Ohm
5 V DC current	15 mA
24 V DC internal current	50 mA

FIELD NOTE

Calculate the channel and total load currents, isolate both 24 V supplies, record safe-state behavior and prove current sensing and final-element action after installation.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	FC-SDOL-0424 / FC-SDOL-0424 recorded
Physical interface	Safety Manager I/O chassis
Companion check	24 V DC external field supply
Functional proof	Provides four high-current safe output channels
Application test	Large shutdown-solenoid actuation

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 a current-sense and final-element proof test 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-SDOL-0424
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
CC-IP0101-51410056-175	Related industrial automation product	View CC-IP0101-51410056-175 page
CC-TAIX01-51308363-175	Related industrial automation product	View CC-TAIX01-51308363-175 page
8C-PAIMA1-51454473-175	Related industrial automation product	View 8C-PAIMA1-51454473-175 page
FC-PDB-0824P	Related industrial automation product	View FC-PDB-0824P page
621-9937	Related industrial automation product	View 621-9937 page
620-0036	Related industrial automation product	View 620-0036 page
K2LCN-8	Related industrial automation product	View K2LCN-8 page
MU-FOED02-51197564-200	Related industrial automation product	View MU-FOED02-51197564-200 page

SOURCE IDENTIFIERS

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

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