APTER POWER

PRODUCT TECHNICAL REFERENCE

INDUSTRIAL AUTOMATION PRODUCT

FC-SDO-0824

Safe Digital Output Module

Eight protected 24 V DC safety-related source-output signals

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Honeywell Safety Manager
Part number	FC-SDO-0824
Country	USA
HS code	8537101190

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2 Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL VALUE
Module type	Safe digital output
Output channels	8
Output type	24 V DC solid-state source
Output protection	Short-circuit proof
Maximum channel current	550 mA
Lamp load	120 mA; 2.9 W
Maximum load capacitance	1 uF
Voltage drop	<2 V at 500 mA
Off-state current	<0.1 mA
5 V DC current	25 mA
24 V DC internal current	25 mA
24 V DC external current	70 mA unloaded
Watchdog current	8 mA
Module size	4TE, 3HE (4HP, 3U)
Approvals	CE, TUV, UL, CSA, FM
Keying holes/pins	A9, C9

3 System Role and Architecture

Eight protected 24 V DC safety-related source-output signals

FUNCTION 1

Controls eight independent safe output channels

FUNCTION 2

Sources 24 V DC through protected solid-state outputs

FUNCTION 3

Limits each channel to the documented current duty

FUNCTION 4

Supports Safety Manager output diagnostics and proof testing

Matched system components

- Safety Manager I/O chassis
- 24 V DC field supply
- approved final elements and wiring
- validated safety application

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Safety Manager I/O chassis
Companion hardware	24 V DC field supply
Field connection	approved final elements and wiring
Primary system function	Controls eight independent safe output channels
Controlled acceptance duty	Emergency-shutdown solenoid control

4 Applications and Engineering Context

Emergency-shutdown solenoid control

Controls eight independent safe output channels

Burner-management trip output

Sources 24 V DC through protected solid-state outputs

Machine-safety final-element actuation

Limits each channel to the documented current duty

Safe-output module renewal

Supports Safety Manager output diagnostics and proof testing

TECHNICAL NOTE

Record every energized load and safe state, isolate internal and external 24 V supplies, confirm keying A9/C9 and complete a controlled output proof test.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	FC-SDO-0824 / FC-SDO-0824 recorded
Physical interface	Safety Manager I/O chassis
Companion check	24 V DC field supply
Functional proof	Controls eight independent safe output channels
Application test	Emergency-shutdown solenoid control

5 Engineering Precautions

1. Verify the complete FC-SDO-0824 marking and its assigned eight-channel 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 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
51305072-100	Related industrial automation product	View 51305072-100 page
TC-OAV081	Related industrial automation product	View TC-OAV081 page
T921D-1008	Related industrial automation product	View T921D-1008 page
TK-PRS021	Related industrial automation product	View TK-PRS021 page
TC-IXR061	Related industrial automation product	View TC-IXR061 page
51309355-001	Related industrial automation product	View 51309355-001 page
MU-PLAM02-51304362-100	Related industrial automation product	View MU-PLAM02-51304362-100 page
8C-PDOD51-51454361-175	Related industrial automation product	View 8C-PDOD51-51454361-175 page

MANUFACTURER SOURCE RECORD

Honeywell Safety Manager Hardware Reference

EP-SM.MAN.6284, Issue 1.10

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