

INDUSTRIAL AUTOMATION PRODUCT

FC-SDOL-0424

High-Current Safe Digital Output Module

Four protected high-current 24 V DC safety-related source outputs

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Honeywell Safety Manager
Part number	FC-SDOL-0424
Country	USA
HS code	8537101190

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Technical Specifications

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

PARAMETER	TECHNICAL 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 μ F
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
24 V DC external current	15 mA unloaded
Watchdog current	4 mA
Module size	4TE, 3HE (4HP, 3U)
Approvals	CE, TUV, UL, CSA, FM

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System Role and Architecture

Four protected high-current 24 V DC safety-related source outputs

FUNCTION 1

Provides four high-current safe output channels

FUNCTION 2

Supplies as much as one ampere per channel

FUNCTION 3

Limits the combined output duty to the documented total

FUNCTION 4

Handles inductive loads within the published energy limit

Matched system components

- Safety Manager I/O chassis
- 24 V DC external field supply
- high-current safety final elements
- validated safety application

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Safety Manager I/O chassis
Companion hardware	24 V DC external field supply
Field connection	high-current safety final elements
Primary system function	Provides four high-current safe output channels
Controlled acceptance duty	Large shutdown-solenoid actuation

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Applications and Engineering Context

Large shutdown-solenoid actuation

Provides four high-current safe output channels

Safety contactor control

Supplies as much as one ampere per channel

Inductive trip-load switching

Limits the combined output duty to the documented total

High-current safe-output renewal

Handles inductive loads within the published energy limit

TECHNICAL 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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	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

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Engineering Precautions

- 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
8C-PAINA1-51454470-175	Related industrial automation product	View 8C-PAINA1-51454470-175 page
51309204-125	Related industrial automation product	View 51309204-125 page
FC-PDB-0824	Related industrial automation product	View FC-PDB-0824 page
MU-TAOX02	Related industrial automation product	View MU-TAOX02 page
8C-PAIN01-51454356-175	Related industrial automation product	View 8C-PAIN01-51454356-175 page
MC-TDOR62	Related industrial automation product	View MC-TDOR62 page
10302-2-1	Related industrial automation product	View 10302-2-1 page
10001-R-1	Related industrial automation product	View 10001-R-1 page

MANUFACTURER SOURCE RECORD

Honeywell Safety Manager Hardware Reference

EP-SM.MAN.6284, Issue 1.10

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