

10209/2/1

Sixteen-Channel 24 Vdc Digital Output Module

Honeywell 10209/2/1 is a 16-channel 24 Vdc digital-output module for the Fail Safe Controller. It sources low-power field loads under FSC control and removes output energy on watchdog shutdown.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Fail Safe Controller

PART

10209/2/1

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10209/2/1

PRODUCT OVERVIEW

Honeywell 10209/2/1 is a 16-channel 24 Vdc digital-output module for the Fail Safe Controller. It sources low-power field loads under FSC control and removes output energy on watchdog shutdown.

1

Switches sixteen low-power 24 Vdc loads

2

Sources field current from solid-state outputs

3

De-energizes outputs through the watchdog on shutdown

4

Protects output channels against short circuits

SYSTEM COMPONENTS

FSC I/O rack

24 Vdc field supply

A9/C21 keyed position

Protected resistive or inductive load

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
10002/1/2	FSC control and I/O system module	Open product page
10005/1/1	FSC system module	Open product page
10012/1/2	FSC system interface module	Open product page
10014/F/F	FSC dual RS-232 communication module	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Output channels	16
Output supply	24 Vdc
Rated output current	100 mA maximum
Load power	2.5 W maximum
Output type	Solid-state source
Short-circuit protection	Yes
Lamp load	50 mA; 1.2 W maximum
Load capacitance	1 uF maximum

PARAMETER	VALUE
Voltage drop	<1.2 Vdc at 100 mA
Off-state current	<0.1 mA
Watchdog input	4 mA
Module size	4 TE; 3 HE
5 Vdc current	35 mA
24 Vdc current	85 mA without load
Key coding	A9; C21

TECHNICAL NOTE

Check A9/C21 keying and the external load against the channel limit, confirm suppression for inductive circuits and prove watchdog de-energization during the safety test.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Low-power trip indication

Switches sixteen low-power 24 Vdc loads

Safety relay pilot commands

Sources field current from solid-state outputs

FSC annunciator outputs

De-energizes outputs through the watchdog on shutdown

Shutdown-sequence signaling

Protects output channels against short circuits

PRODUCT PRECAUTIONS

- 1 Verify the complete 10209/2/1 marking and its assigned Fail Safe Controller position before work.
- 2 Isolate the energy associated with FSC I/O rack before disconnecting 10209/2/1.
- 3 Protect the 10209/2/1 connectors and electronic assembly using approved ESD controls.
- 4 Record the as-found 24 Vdc field supply connections and configured assignment before replacement.
- 5 Confirm A9/C21 keyed position matches the approved installation record for 10209/2/1.
- 6 Restore 10209/2/1 under controlled conditions and review its model-specific diagnostics.
- 7 Complete a documented functional test for low-power trip indication before release.

ENGINEER FAQ

Q1 Which technical value is especially important during 10209/2/1 commissioning?

Verify 24 Vdc current is 85 mA without load and use the named manufacturer procedure for the controlled functional test.

Q2 What should be checked if 10209/2/1 does not support safety relay pilot commands after installation?

Check seating, 24 Vdc field supply, A9/C21 keyed position, field energy and the model-specific diagnostics before replacing additional hardware.

Q3 What evidence should be retained after 10209/2/1 returns to service?

Retain the full model identity, as-left connections, configuration, diagnostic result and the final controlled test record for low-power trip indication.

Q4 How is 10209/2/1 identified before installation in a Fail Safe Controller cabinet?

Match the full 10209/2/1 marking and part number 10209/2/1 to the assigned position and installed FSC I/O rack.

Q5 Which companion hardware must be checked when replacing 10209/2/1?

Verify FSC I/O rack, 24 Vdc field supply and A9/C21 keyed position against the approved cabinet and project record before fitting the Sixteen-Channel 24 Vdc Digital Output Module.

Q6 What wiring information should be recorded before removing 10209/2/1?

Record terminal identifiers, polarity or phase, shields, cable tags and the as-found channel or port assignment for 10209/2/1.

Q7 How should engineers validate 10209/2/1 after configuration?

Restore the documented Fail Safe Controller assignment, review diagnostics and run a controlled test of its role: switches sixteen low-power 24 vdc loads.

Q8 Can 10209/2/1 be moved to a different slot or duty without review?

No. Confirm keying, companion hardware and the approved configuration before assigning 10209/2/1 to another position or function.