

FC-TSRO-0824 V1.1

Safe Relay Output FTA

Honeywell FC-TSRO-0824 V1.1 is an eight-channel Safe Relay Output FTA that provides isolated, fused contacts for Safety Manager field loads.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Safety Manager

PART

FC-TSRO-0824 V1.1

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PRODUCT OVERVIEW

Honeywell FC-TSRO-0824 V1.1 is an eight-channel Safe Relay Output FTA that provides isolated, fused contacts for Safety Manager field loads.

1

Provides eight safety relay outputs

2

Isolates safety logic from field loads

3

Uses individually fused contacts

4

Supports SIL 3 output circuits

SYSTEM COMPONENTS

Safety Manager output module

24 Vdc relay-coil supply

Fused field circuits

Safety shutdown loads

TECHNICAL DATA

PARAMETER	VALUE
Output channels	8
Nominal coil voltage	24 Vdc
Maximum coil voltage	36 Vdc
Pickup voltage	19.2 Vdc
Typical coil current	40 mA

PARAMETER	VALUE
Contact rating	5 A fused
Switching voltage	250 Vac/Vdc maximum
Switching load	1250 VA; 150 W
Safety integrity	SIL 3

TECHNICAL NOTE

Confirm coil supply, contact voltage category and fuse rating for every channel, then prove de-energize-to-trip action under a controlled test.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Emergency trip solenoids

Provides eight safety relay outputs

Burner shutdown circuits

Isolates safety logic from field loads

Machine safety contactors

Uses individually fused contacts

Fire and gas isolation outputs

Supports SIL 3 output circuits

PRODUCT PRECAUTIONS

- 1 Verify the complete FC-TSRO-0824 V1.1 marking and its assigned Safety Manager position before work.
- 2 Isolate the applicable power and field energy before disconnecting FC-TSRO-0824 V1.1.
- 3 Protect FC-TSRO-0824 V1.1 connectors and electronic assemblies with approved ESD controls.
- 4 Record the installed wiring, channel assignment and configuration before replacement.
- 5 Match Safety Manager output module and 24 Vdc relay-coil supply to the documented system arrangement.
- 6 Commission FC-TSRO-0824 V1.1 with controlled status, signal and diagnostic checks.
- 7 Retain the final emergency trip solenoids functional-test result in the maintenance record.

ENGINEER FAQ

Q1 Does FC-TSRO-0824 V1.1 match Safety Manager output module in a Emergency trip solenoids installation?

Verify the complete FC-TSRO-0824 V1.1 marking, the documented Safety Manager position and the installed Safety Manager output module before fitting the assembly.

Q2 How should FC-TSRO-0824 V1.1 be wired when it must provides eight safety relay outputs?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for FC-TSRO-0824 V1.1; then continuity-test the affected path.

Q3 Which Safety Manager records should be captured before removing FC-TSRO-0824 V1.1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with FC-TSRO-0824 V1.1 before disconnection.

Q4 What controlled test confirms that FC-TSRO-0824 V1.1 can isolates safety logic from field loads?

Apply the approved field or simulated stimulus, observe the Safety Manager indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 24 Vdc relay-coil supply condition should be checked when FC-TSRO-0824 V1.1 reports an abnormal state?

Check the 24 Vdc relay-coil supply supply, seating and connection first, then compare channel diagnostics with the recorded FC-TSRO-0824 V1.1 baseline.

Q6 Can FC-TSRO-0824 V1.1 be moved directly into Burner shutdown circuits without validating Safety shutdown loads?

No. Confirm the Safety shutdown loads, revision, connection scheme and Safety Manager configuration before transferring FC-TSRO-0824 V1.1 to that duty.

Q7 What maintenance evidence is required after FC-TSRO-0824 V1.1 is used for Machine safety contactors?

Retain the nameplate record, corrective action, final diagnostics and a controlled machine safety contactors functional-test result for FC-TSRO-0824 V1.1.

Q8 How should FC-TSRO-0824 V1.1 be returned to service in Fire and gas isolation outputs?

Restore power under control, verify uses individually fused contacts, exercise the intended signal path and release FC-TSRO-0824 V1.1 only after the Safety Manager remains in its approved operating state.

SOURCE Honeywell Safety Manager Hardware Reference | EP-SM.MAN.6284 R162

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