

INDUSTRIAL AUTOMATION PRODUCT

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.

| IDENTITY      | VERIFIED VALUE    |
|---------------|-------------------|
| Manufacturer  | Honeywell         |
| System family | Safety Manager    |
| Part number   | FC-TSRO-0824 V1.1 |
| 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      | 8                   |
| Nominal coil voltage | 24 Vdc              |
| Maximum coil voltage | 36 Vdc              |
| Pickup voltage       | 19.2 Vdc            |
| Typical coil current | 40 mA               |
| Contact rating       | 5 A fused           |
| Switching voltage    | 250 Vac/Vdc maximum |
| Switching load       | 1250 VA; 150 W      |
| Safety integrity     | SIL 3               |

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## System Role and Architecture

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

**FUNCTION 1**

Provides eight safety relay outputs

**FUNCTION 2**

Isolates safety logic from field loads

**FUNCTION 3**

Uses individually fused contacts

**FUNCTION 4**

Supports SIL 3 output circuits

### Matched system components

- Safety Manager output module
- 24 Vdc relay-coil supply
- Fused field circuits
- Safety shutdown loads

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## Applications and Engineering Context

**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

**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.

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## Engineering 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.

### MANUFACTURER SOURCE RECORD

Honeywell Safety Manager Hardware Reference

EP-SM.MAN.6284 R162

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