

FC-TSRO-0824

Eight-channel relay output FTA

Honeywell FC-TSRO-0824 is an eight-channel relay-output Field Termination Assembly for Safety Manager. It accepts a nominal 24 V DC input and provides fused relay contacts for controlled field loads.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
Complete model	FC-TSRO-0824
Product role	Eight-channel relay output FTA
System family	Safety Manager
Country of origin	USA

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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FC-TSRO-0824

Technical Specifications

PARAMETER	VERIFIED VALUE
Module type	Relay output Field Termination Assembly
Safety class	Up to and including SIL3
Nominal input voltage	24 V DC
Maximum input voltage	36 V DC
Relay pick-up voltage	19.2 V DC
Input current	Typically 40 mA at 24 V DC
Output channels	8
Maximum output current	5 A fused
Minimum output current	1 mA at 5 V
Maximum output voltage	250 V AC / 250 V DC
Maximum switched load	1250 VA / 150 W
Fuse rating	5 A; Schurter 0001.2511

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Record the FC-TSRO-0824 terminal assignments, fuse condition and relay-load ratings before replacement. Verify the 24 V DC drive circuit and prove each output channel under the approved safety-test procedure.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Verify the complete FC-TSRO-0824 marking and hardware revision before work.
2	Place affected safety functions in the approved maintenance state.
3	Confirm the nominal 24 V DC input and do not exceed 36 V DC.
4	Record all eight channel terminal assignments before disconnecting conductors.
5	Use only the documented 5 A fuse type and observe the ambient derating curve.

System Role and Architecture

Honeywell FC-TSRO-0824 is an eight-channel relay-output Field Termination Assembly for Safety Manager. It accepts a nominal 24 V DC input and provides fused relay contacts for controlled field loads.

FUNCTION 1
Eight independently wired relay output channels

FUNCTION 2
24 V DC relay-drive input

FUNCTION 3
Fused 5 A output paths

FUNCTION 4
Safety Manager FTA architecture up to SIL3

Common Applications

APPLICATION	ENGINEERING CONTEXT
Safety shutdown outputs	Switches documented final elements through eight fused relay channels.
Fire and gas actions	Provides relay isolation for configured alarm and trip duties.
Burner management outputs	Drives approved interlocks or permissive loads within published contact ratings.
Legacy Safety Manager maintenance	Restores the recorded TSRO-0824 termination and fuse arrangement.

CONTROLLED ACCEPTANCE DUTY
Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete FC-TSRO-0824 marking and hardware revision before work.
2	Place affected safety functions in the approved maintenance state.
3	Confirm the nominal 24 V DC input and do not exceed 36 V DC.
4	Record all eight channel terminal assignments before disconnecting conductors.
5	Use only the documented 5 A fuse type and observe the ambient derating curve.
6	Verify each AC or DC field load remains within the published voltage and switched-load limits.
7	Prove relay pick-up, contact state and feedback channel by channel.
8	Restore the approved cause-and-effect test before service release.

Model-Specific FAQ — Part 1

QUESTION	ANSWER
How many relay output channels are provided by FC-TSRO-0824?	Eight relay output channels are documented.
What nominal input supply is specified for FC-TSRO-0824?	The nominal input is 24 V DC.
At what voltage does the relay pick up in FC-TSRO-0824?	The published relay pick-up voltage is 19.2 V DC.
What is the maximum fused output current for FC-TSRO-0824?	The published maximum is 5 A per documented fused output path.

Model-Specific FAQ — Part 2

QUESTION	ANSWER
Which fuse part is specified for FC-TSRO-0824?	Honeywell lists a 5 A Schurter fuse, manufacturer part 0001.2511.
What output voltage limit applies to FC-TSRO-0824?	The maximum is 250 V AC or 250 V DC.
What safety class is documented for FC-TSRO-0824?	The FTA is documented for use up to and including SIL3.
What must be tested after replacing FC-TSRO-0824?	Test all eight relay channels, feedbacks, fuse states and the approved safety cause-and-effect sequence.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Honeywell 05701-a-0302	Open product page
Honeywell 05701-a-0325	Open product page
Honeywell 05701-a-0361	Open product page
Honeywell 05704-a-0123	Open product page
Honeywell 05704-a-0135	Open product page
Honeywell 10001-a-1	Open product page
Honeywell 10001-r-1	Open product page
Honeywell 10002-1-2	Open product page

MANUFACTURER SOURCE RECORD

Safety Manager Hardware Reference
EP-SM.MAN.6284 Issue 2.1; TSRO-0824 datasheet version 1.2

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