

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.

BRAND	Honeywell	ORIGIN	USA
MODEL	FC-TSRO-0824	HS CODE	8537101190
FAMILY	Safety Manager	SHIP FROM	Xiamen, Fujian, China

MANUFACTURER SOURCE RECORD

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

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 531

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



FC-TSRO-0824

Product Overview

SYSTEM FUNCTION

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

TECHNICAL NOTE

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.

Technical Data and Acceptance

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

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.

Acceptance Path

1 IDENTITY

FC-TSRO-0824 and revision recorded

2 ELECTRICAL

24 V DC drive and fuse condition verified

3 CHANNELS

Eight output paths proven

4 SAFETY PROOF

Cause-and-effect test accepted

Applications and Engineering FAQ

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.

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.

FAQ, Related Products and Source

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 10018-u-1	Open product page
Honeywell 10020-1-2	Open product page
Honeywell 10024-h-f	Open product page
Honeywell 10024-h-i	Open product page
Honeywell 10024-i-f	Open product page
Honeywell 10024-i-i	Open product page
Honeywell 10102-2-1	Open product page
Honeywell 10105-2-1	Open product page

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