

INDUSTRIAL AUTOMATION PRODUCT

FC-TSAO-0220M

Safe Analog Output FTA

Honeywell FC-TSAO-0220M is a two-channel Safe Analog Output FTA for controlled current-loop outputs in Safety Manager systems.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Safety Manager
Part number	FC-TSAO-0220M
Country	USA
HS code	8537101190

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WHATSAPP / PHONE

EMAIL

WEBSITE

+86 180 3023 5313

sales13@apterpower.com

www.apterpower.com



FC-TSAO-0220M

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL VALUE
Output channels	2
Maximum output voltage	40 Vdc
Continuous current	25 mA maximum per channel
Mounting	DIN rail
Terminal conductor	0.2 to 2.5 mm2
Wire strip length	7 mm
Terminal torque	0.5 to 0.6 Nm
Approvals	CE; UL; CSA; TUV; FM

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System Role and Architecture

Honeywell FC-TSAO-0220M is a two-channel Safe Analog Output FTA for controlled current-loop outputs in Safety Manager systems.

FUNCTION 1

Provides two safe analog outputs

FUNCTION 2

Limits continuous channel current

FUNCTION 3

Terminates output loops on DIN rail

FUNCTION 4

Supports certified Safety Manager installations

Matched system components

- Safety Manager analog-output module
- DIN-rail cabinet
- Safe 4-20 mA final elements
- Approved loop power arrangement

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Applications and Engineering Context

Safety valve positioning

Provides two safe analog outputs

Burner fuel-demand limiting

Limits continuous channel current

Protective speed-reference output

Terminates output loops on DIN rail

SIL analog shutdown control

Supports certified Safety Manager installations

TECHNICAL NOTE

Use the specified conductor size and terminal torque, keep each loop below 25 mA continuous, and validate safe-state output behavior.

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Engineering Precautions

1

Verify the complete FC-TSAO-0220M marking and its assigned Safety Manager position before work.

2

Isolate the applicable power and field energy before disconnecting FC-TSAO-0220M.

3

Protect FC-TSAO-0220M connectors and electronic assemblies with approved ESD controls.

4

Record the installed wiring, channel assignment and configuration before replacement.

5

Match Safety Manager analog-output module and DIN-rail cabinet to the documented system arrangement.

6

Commission FC-TSAO-0220M with controlled status, signal and diagnostic checks.

7

Retain the final safety valve positioning functional-test result in the maintenance record.

MANUFACTURER SOURCE RECORD

Honeywell Safety Manager Hardware Reference

EP-SM.MAN.6284 R162

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