

Safe Digital Output Field Termination Assembly

Honeywell FC-TSDO-0824 is an eight-channel safe digital-output field termination assembly. It connects an SDO-0824 output module and system interconnection cable to external 24 Vdc field wiring.

IDENTITY RECORD

MANUFACTURER Honeywell	FAMILY Safety Manager
EXACT MODEL FC-TSDO-0824	PRIMARY DUTY Emergency shutdown solenoids

APTER POWER SALES TEAM

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REFERENCE PURPOSE

- 1 Establish the exact product identity and installed-system boundary.
- 2 Summarize manufacturer-supported technical data without transferring values from a similar model.
- 3 Provide a compact engineering path for selection, replacement and controlled commissioning.
- 4 Link verified related Apter Power product pages for adjacent family hardware.

TECHNICAL DATA

Output channels	8
Maximum voltage	36 Vdc
Maximum continuous current	1.5 A/channel
DIN rail	TS32; TS35 × 7.5
Terminal wire size	2.5 mm² maximum
Terminal torque	0.5 Nm
Approvals	CE; TÜV; UL; CSA; FM

ENGINEERING NOTE

Use the connected output module's permitted current as the controlling limit, apply the documented terminal torque and prove the de-energized safe state.

TECHNICAL VERIFICATION MATRIX

Identity control	Full model marking FC-TSDO-0824 and installed execution
Host-system boundary	Safety Manager
Companion hardware	SDO-0824 safe output module / SICC-0001/Lx interconnection cable
Acceptance evidence	Documented emergency shutdown solenoids functional result

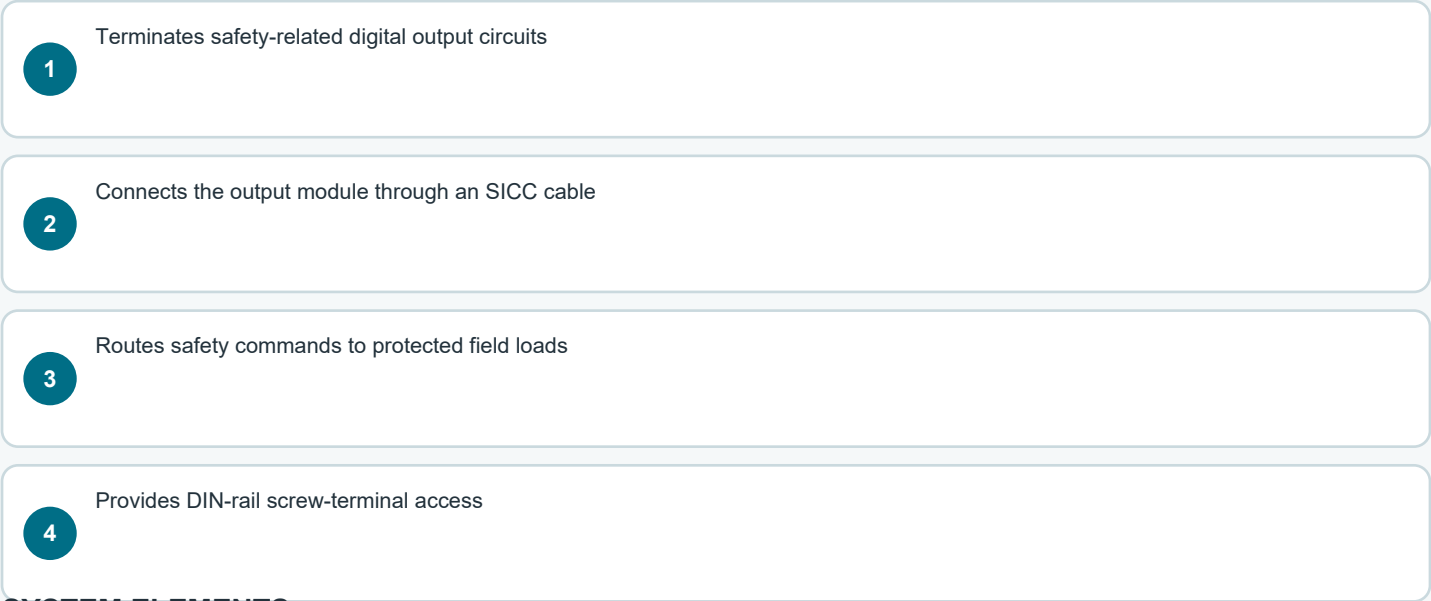
MANUFACTURER SOURCE RECORD

Honeywell Safety Manager Hardware Reference | EP-SM.MAN.6284 Issue 2.1

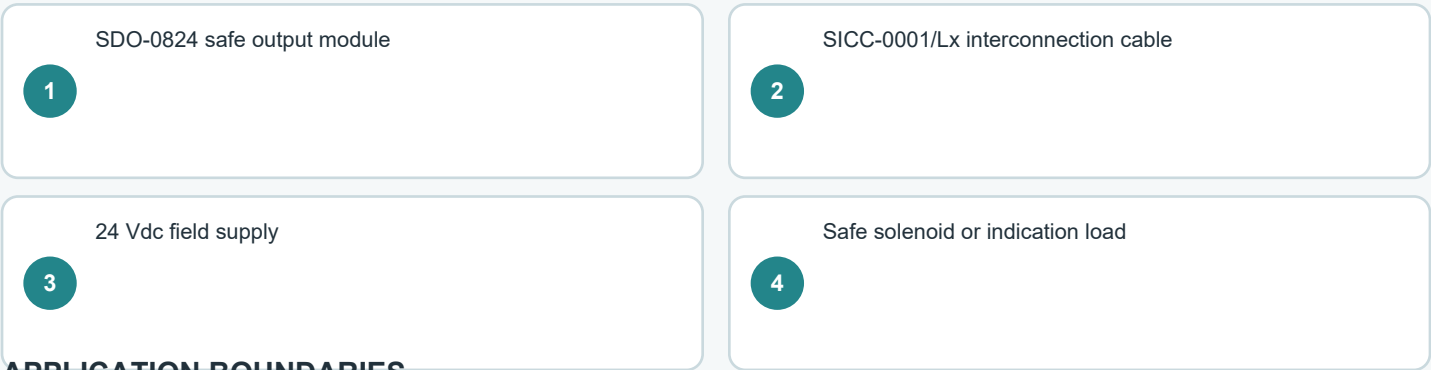
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Functional path and compatible system elements

FUNCTIONAL PATH



SYSTEM ELEMENTS



APPLICATION BOUNDARIES

Emergency shutdown solenoids	Terminates safety-related digital output circuits
Burner trip circuits	Connects the output module through an SICC cable
Fire-and-gas isolation outputs	Routes safety commands to protected field loads
Machine safety contactor commands	Provides DIN-rail screw-terminal access

CONTROLLED WORK SEQUENCE

- 1

Verify the complete FC-TSDO-0824 marking, hardware execution and assigned Safety Manager position.
- 2

Place the process in the approved maintenance state and isolate every applicable energy source.
- 3

Record as-found wiring, shields, jumpers, cable tags, slot identity and diagnostics before removing FC-TSDO-0824.
- 4

Use ESD controls and protect keyed connectors, terminals and assemblies while handling FC-TSDO-0824.
- 5

Confirm the installed SDO-0824 safe output module and SICC-0001/Lx interconnection cable against approved drawings and configuration records.
- 6

Inspect mating hardware, terminal condition, grounding and mechanical retention before installation.
- 7

Restore power or network service in controlled stages; confirm status indications before functional commands.
- 8

Complete a documented functional test for emergency shutdown solenoids and retain the as-left record.

DIAGNOSTIC DECISION GATE

If the expected response is absent, do not immediately transfer configuration or replace adjacent hardware. Recheck identity, seating, supply or network state, terminations, channel assignment and manufacturer diagnostics; then repeat the controlled test.

Related family pages, engineer FAQ and source record

Related Safety Manager products on Apter Power

MODEL	SERIES / SYSTEM ROLE	APTER POWER PAGE
FC-TSRO-0824 V1.1	8-channel safe relay-output FTA	Open product page
FC-TSAO-0220M	2-channel safe analog-output FTA	Open product page
FC-TSDI-1624	Safe digital-input FTA	Open product page
FC-TSAI-1620m	16-channel safe analog-input FTA	Open product page
FC-TSFIRE-1624	Safety Manager fire-input FTA	Open product page

ENGINEER FAQ

Q1	What must be matched before installation?	Match the full FC-TSDO-0824 marking, revision or execution, assigned position and installed companion hardware.
Q2	What should be isolated first?	Use the site's approved maintenance state and isolate the energy sources serving SDO-0824 safe output module and SICC-0001/Lx interconnection cable.
Q3	What as-found record is required?	Record terminal identity, polarity, shields, jumpers, cable tags, configuration and diagnostic status.
Q4	Which compatibility check is mandatory?	Compare the Safety Manager slot, interface, companion hardware and wiring scheme with approved project documentation.
Q5	How should commissioning begin?	Begin with visual and continuity checks, then restore service in stages and observe normal status indications.
Q6	How should the assigned function be proved?	Use a controlled test for emergency shutdown solenoids while required interlocks and process safeguards remain effective.
Q7	What should be checked after an abnormal result?	Recheck seating, terminations, supply or network condition, channel assignment and manufacturer diagnostics before further replacement.
Q8	What evidence should be retained?	Retain the FC-TSDO-0824 identity, as-left wiring/configuration, final diagnostics and functional-test result.

MANUFACTURER SOURCE RECORD

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