PRODUCT INFORMATION DASHBOARD

Honeywell FS-TSFIRE-1624

Fire Detector Input FTA

Honeywell FS-TSFIRE-1624 interfaces sixteen 24 VDC fire-detector channels with Safety Manager SAI-1620m analog input hardware while providing line monitoring and a global detector-reset function.

PRODUCT ROLE

16 monitored detector inputs

SYSTEM

Honeywell Safety Manager fire and gas input

INTERFACE

External 24 VDC supply

SERVICE FOCUS

TS32 or TS35 DIN-rail mounting

Exact-model highlights

- 16 monitored detector inputs
- External 24 VDC supply
- Global detector reset relay
- TS32 or TS35 DIN-rail mounting

Release questions

IDENTITY

Is the complete FS-TSFIRE-1624 code confirmed?

INTERFACE

Do field signals and companion equipment match?

SETTINGS

Are installed parameters and mappings preserved?

ACCEPTANCE

Have normal, fault and recovery states been tested?

Technical data

Input channels	16
External supply	24 VDC, +25% / -15%
Maximum supply current	570 mA at 24 VDC
Typical current with EOL resistors	70 mA at 24 VDC
Typical no-load current	11 mA at 24 VDC
Input voltage with 4.7 kOhm EOL	20.5 VDC typical
No-load input voltage	23.5 VDC typical
Channel resistance	680 Ohm +/-5%
Shorted current	35 mA at 24 VDC
Dimensions	170 x 70 x 64 mm

Application safeguards

SAFEGUARD 1

Verify the complete FS-TSFIRE-1624 label and sixteen-channel assignment before field work.

SAFEGUARD 2

Isolate the external 24 VDC supply and prove de-energization at terminals A and B.

SAFEGUARD 3

Preserve the detector polarity, channel numbering and end-of-line resistor location for every loop.

SAFEGUARD 4

Keep total field-wire resistance below the stated 100 Ohm limit.

Common applications

Fire and gas panels

Terminates monitored 24 V fire-detector loops for Safety Manager processing.

Manual call-point circuits

Accepts digital alarm inputs with end-of-line supervision.

Redundant safety input

Transfers the sixteen signals to a redundant SAI-1620m pair through the system cable.

Detector reset groups

Removes field supply through the common relay to reset connected detectors.

Interface checklist

- Detector connection: Sixteen 24 V fire-detector or manual-call-point channels
- Safety Manager link: SICC-0001/Lx cable to one SAI-1620m or a redundant pair
- Reset circuit: 17-39 VDC relay input; 8.5 mA typical at 24 VDC
- Field terminals: 48 screw terminals; maximum 2.5 mm2 / AWG 14 conductor

Installation snapshot

STEP 1

Capture the FS-TSFIRE-1624 label, DIN-rail position and terminal schedule.

STEP 2

Place the fire and gas function in the approved maintenance or inhibited state.

STEP 3

Label common supply, reset relay, ground and all forty-eight field terminals.

STEP 4

Disconnect the external 24 VDC supply and prove zero energy at the FTA.

Model-specific FAQ

Q1 How many inputs does Honeywell FS-TSFIRE-1624 provide?

The field termination assembly provides sixteen fire-detector input channels.

Q2 Which Safety Manager input module works with Honeywell FS-TSFIRE-1624?

A SICC-0001/Lx cable transfers the channels to one SAI-1620m module or a redundant pair.

Q3 What supply range applies to Honeywell FS-TSFIRE-1624?

The external supply is 24 VDC with +25 percent and -15 percent tolerance.

Q4 What line-monitoring resistor is used with Honeywell FS-TSFIRE-1624?

A typical end-of-line value is 4.7 kOhm with +/-5 percent tolerance and 0.25 W rating.

Q5 What current does Honeywell FS-TSFIRE-1624 draw with end-of-line resistors?

Typical current is 70 mA at a 24 VDC external supply.

Q6 How is the global reset performed by Honeywell FS-TSFIRE-1624?

Energizing the common relay removes detector supply; the relay operates from 17 to 39 VDC.

Q7 Which DIN rails accept Honeywell FS-TSFIRE-1624?

The module mounts on TS32 or TS35 x 7.5 DIN EN rails and uses 171 mm of rail length.

Q8 What loop conditions should be proven after installing Honeywell FS-TSFIRE-1624?

Check normal supervision, fire alarm, open circuit, short circuit, global reset and the corresponding SAI-1620m indications for every assigned channel.

Product precautions

1. Verify the complete FS-TSFIRE-1624 label and sixteen-channel assignment before field work.
2. Isolate the external 24 VDC supply and prove de-energization at terminals A and B.
3. Preserve the detector polarity, channel numbering and end-of-line resistor location for every loop.
4. Keep total field-wire resistance below the stated 100 Ohm limit.
5. Use the specified conductor size, seven-millimeter strip length and 0.5 Nm terminal torque.
6. Check the global-reset relay wiring separately because that function is not safety related.
7. Test open, normal, alarm and short-circuit conditions without exceeding the detector rating.
8. Verify Safety Manager diagnostics, reset behavior and all sixteen channel states before handover.

Related products

Verified related products on ApterPower

Honeywell FS-TRO-0824
Safety-system portfolio reference
View Honeywell FS-TRO-0824

Honeywell FS-TSAI-1620M
Safety-system portfolio reference
View Honeywell FS-TSAI-1620M

Honeywell FC-USI-0001 V1.0
Safety-system portfolio reference
View Honeywell FC-USI-0001 V1.0

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Share the exact FS-TSFIRE-1624 nameplate, application and required quantity for a model-specific quotation.