



FTA-T-08 Fail-safe digital output (relay contact) FTA (4 channels)

Description

The FTA-T-08 module has four fail-safe potential-free relay contact (NO) output channels, created by two different relays connected in series. These relays are capable of driving a wide variety of loads including 115/230 Vac, which gives the FSC system a fail-safe 115/230 Vac output capability.

The energized state of the relay is indicated by an LED on the module.

Four channels can be connected to the FTA-T-08 module via a system interconnection cable (SIC). This cable is plugged into the SIC connectors on the FTA module. The SIC connector is marked '1A' (white print on the board).

The FTA module has a universal snap-in facility for standard DIN EN rails, and screw terminals for connecting field wiring.

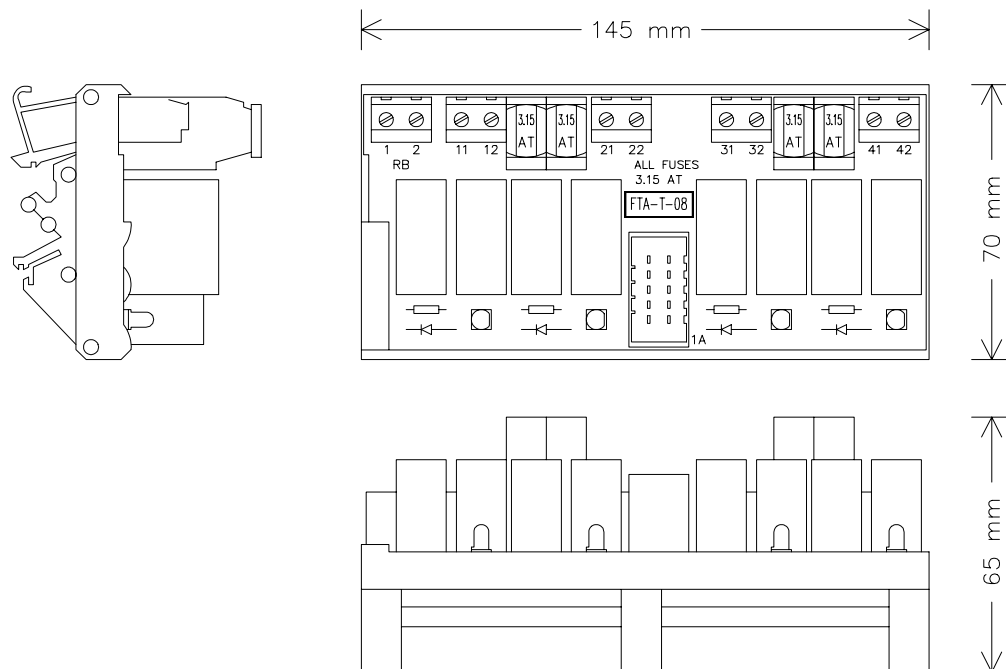


Figure 1 Mechanical layout

Each channel consists of:

- two relays of different manufacturers,
- a fused NO field contact (3.15 AT), and
- a status indicator LED.

The module has a common readback circuit for all four channels, which is closed if all relays are functioning correctly. If the readback circuit is opened, this indicates that one of the relays of the FTA is faulty.

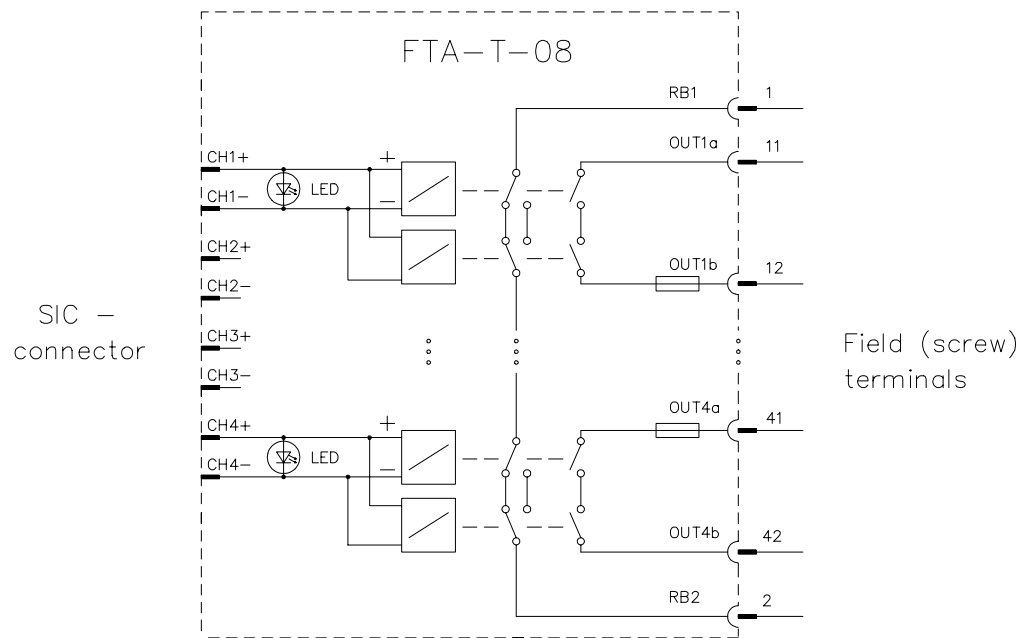


Figure 2 Schematic diagram

Applications

For details on applications and connection options for the FTA-T-08 module refer to the 'SIC to FTA applications' data sheet.



Connections

The connections diagram of the FTA-T-08 module is as follows:

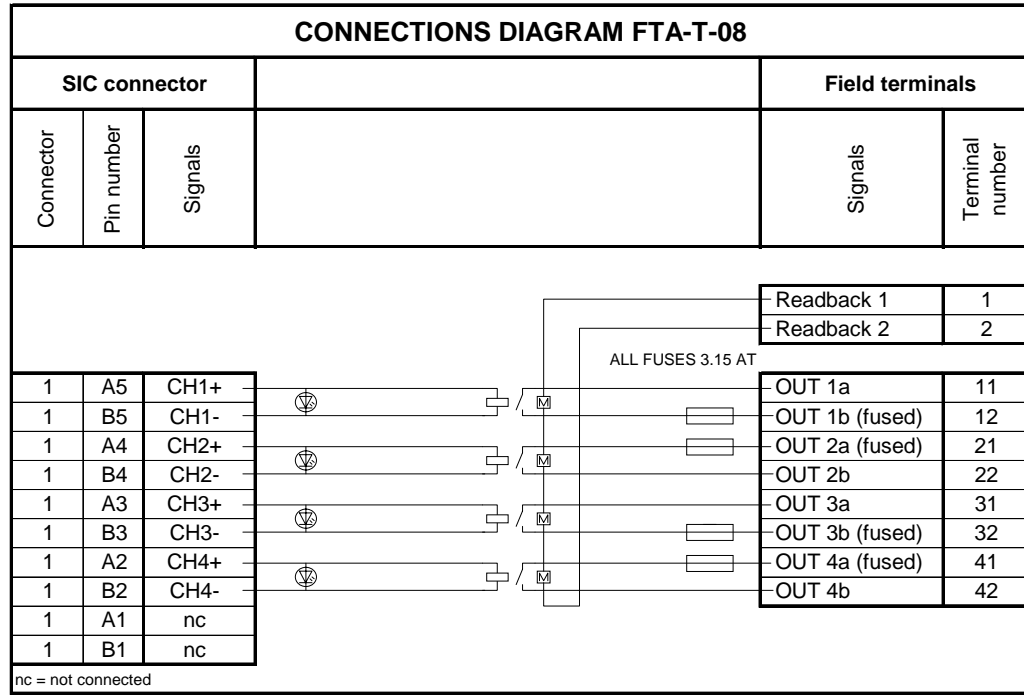


Figure 3 Connections diagram

Technical data

The FTA-T-08 module has the following specifications:

| | | |
|----------------|----------------------------|-------------------------|
| General | Type number: | FTA-T-08 |
| | Approvals: | CE, TÜV, UL |
| Input | Nominal input voltage: | 24 V |
| | Max. input voltage: | 31 V |
| | Relay cut-in voltage: | 19 V |
| | Input current: | typically 50 mA at 24 V |
| Output | Number of output channels: | 4 |
| | Max. output current: | 3.15 A |
| | Min. output current: | 400 mA at 24 Vdc |
| | Max. output voltage: | 250 Vac / 150 Vdc |
| | Max. output load: | 800 VA / 150 W |



Technical data (continued)

| | | |
|----------------------|--------------------------|---|
| Fuses | Rating: | 3.15 AT (slow-acting) |
| | Dimensions: | 5 x 20 mm (0.2 x 0.78 in) or 5 x 25 mm (0.2 x 0.98 in) |
| Physical | Module dimensions: | 145 x 70 x 65 mm (L x W x H) 5.71 x 2.76 x 2.56 in (L x W x H) |
| | DIN EN rails: | TS32 / TS35 x 7.5 |
| | Used rail length: | 146 mm (5.75 in) |
| Termination | Screw terminals: | |
| | – max. wire diameter | 2.5 mm ² (AWG 14) |
| | – strip length | 7 mm (0.28 in) |
| | – tightening torque | 0.5 Nm (0.37 ft-lb) |
| Relay contact | Max. current: | 5 A |
| | Max. switched voltage: | 250 Vac / 150 Vdc |
| | Max. switched load: | 1250 VA / 150 W |
| | Max. switched frequency: | 20 Hz |
| | Expected life: | |
| | – electrical | 80,000 switch operations |
| | – mechanical | 5,000,000 switch operations |
| | Ambient temperature: | –40°C to +60°C (–40°F to +140°F) |
| Contact material: | silver alloy | |

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