FTA-T-20 Digital output (relay contact) FTA (8 channels, NO/NC)

Description

The field termination assembly module FTA-T-20 is the interface between the system interconnection cables (SICs) and the external field wiring (screw terminals). It has eight non-fail-safe potential-free relay changeover contacts (NO/NC). The energized state of the relay is indicated by an LED on the module.

Eight channels can be connected to the FTA-T-20 module via a system interconnection cable (SIC). This cable is plugged into the SIC connector on the FTA module.
The FTA module has a universal snap-in facility for standard DIN EN rails, and screw terminals for connecting field wiring.

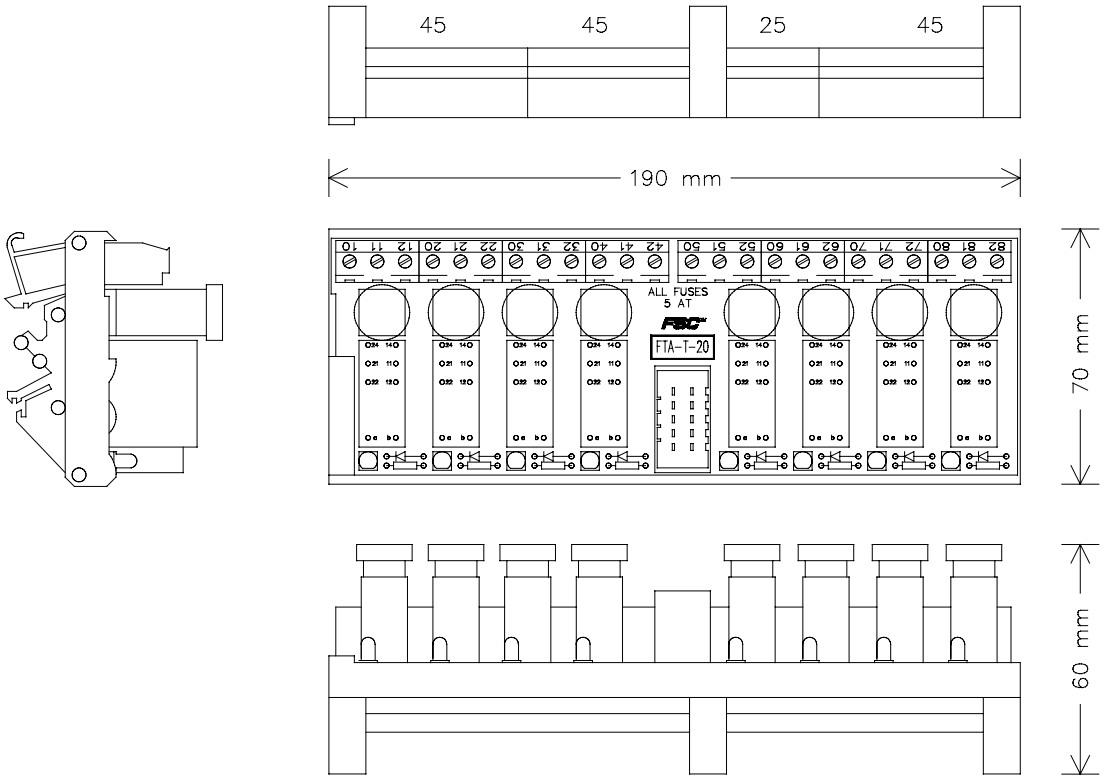


Figure 1 Mechanical layout

Each channel consists of:

- one relay,
- a changeover contact with a fused (5 AT) common, and
- a status indicator LED.

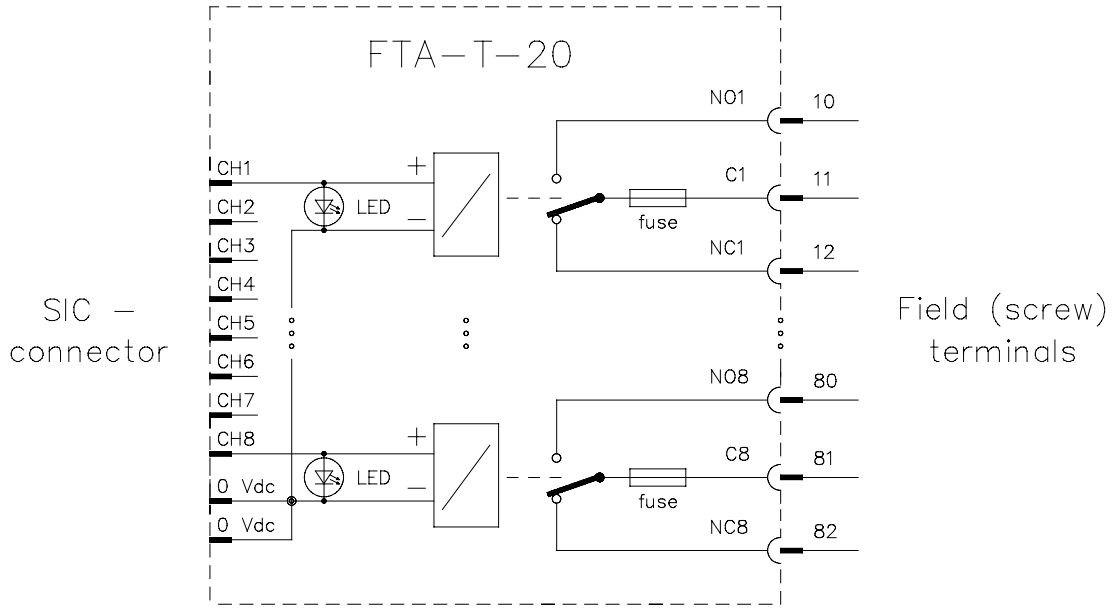


Figure 2 Schematic diagram

Applications

For details on applications and connection options for the FTA-T-20 module refer to the 'SIC to FTA applications' data sheet.

Connections

The connections diagram of the FTA-T-20 module is as follows:

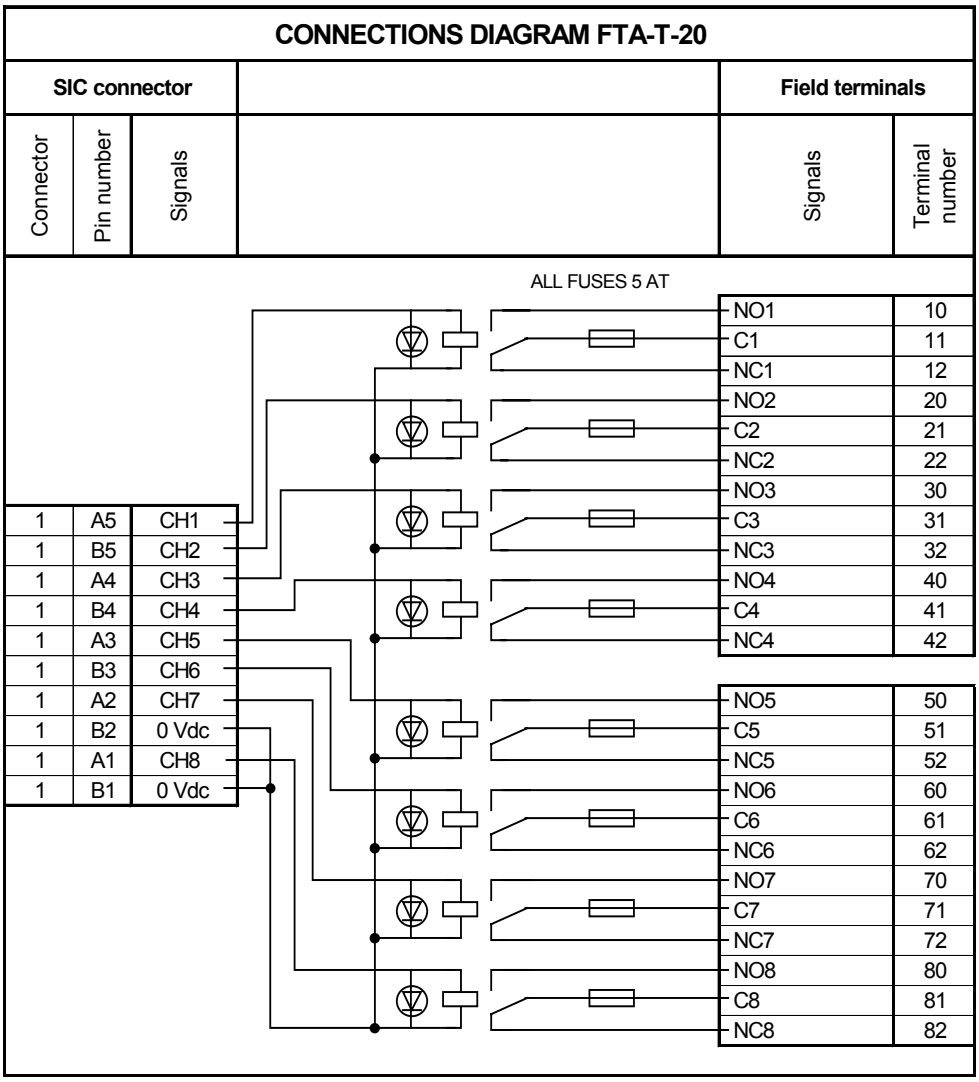


Figure 3 Connections diagram

Technical data

The FTA-T-20 module has the following specifications:

General	Type number:	FTA-T-20
	Approvals:	CE, UL, TÜV
Input	Nominal input voltage:	24 Vdc
	Max. input voltage:	31 Vdc
	Relay cut-in voltage:	19 Vdc
	Input current:	typically 27 mA at 24 Vdc
Output	Number of output channels:	8
	Max. output current:	5 A
	Max. output voltage:	250 Vac / 300 Vdc
	Max. switched load:	1250 VA / 150 W at 30 Vdc (see Figure 4)
Fuses	Rating:	5 AT (slow-acting)
	Dimensions	5 x 20 mm (0.20 x 0.79 in)
Physical	Module dimensions:	190 x 70 x 60 mm (L x W x H) 7.48 x 2.76 x 2.36 in (L x W x H)
	DIN EN rails:	TS32 / TS35 x 7.5
	Used rail length:	191 mm (7.52 in)
Termination	Screw terminals:	
	– max. wire diameter	2.5 mm² (AWG 14)
	– strip length	7 mm (0.28 in)
	– tightening torque	0.5 Nm (0.37 ft-lb)
Relay contacts	Max. current:	8 A
	Max. switched voltage:	250 Vac / 300 Vdc
	Max. switched load:	2000 VA / 192 W at 24 Vdc (see Figure 4)
	Max. switching frequency:	20 Hz
	Expected life:	
	– electrical	100,000 switch operations
	– mechanical	30,000,000 switch operations

Technical data (continued)

Relay contacts (cont.)

Isolation:

– coil to contact	4000 Vac
– contact to contact	1000 Vac
Ambient temperature:	–40°C to +70°C (–40°F to +158°F)
Contact material:	silver-cadmium oxide

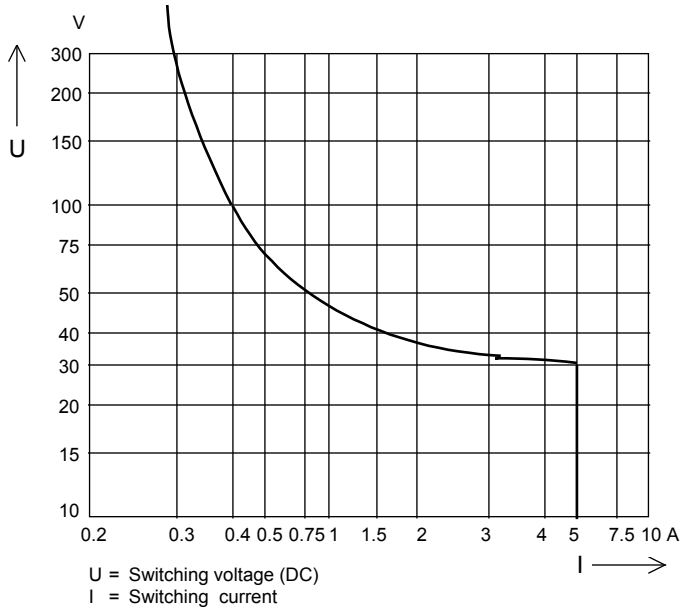


Figure 4 Maximum DC switched power curve for FTA-T-20 module

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