



FS-TSRO-0824 Digital output (relay) FTA for AK5/6 applications (8 channels)

Description

The field termination assembly module FS-TSRO-0824 is the interface between the system interconnection cable SIC-C-12 and the external field wiring (screw terminals). It has eight relay-based potential-free output channels suitable for applications up to AK6 without making use of fault exclusions.

The FS-TSRO-0824 module complies with safety requirements for general use in safety requirement classes AK5/6 as defined in DIN V 19250.

Each channel consists of:

- three relays,
- a fused NO field contact (5 AT, slow-acting), and
- a status indication LED.

The relays are capable of driving a wide variety of loads including 115/230 Vac, which gives the FSC system a 115/230 Vac output capability for AK5/6 applications. The energized state of the relay is indicated by an LED on the module.

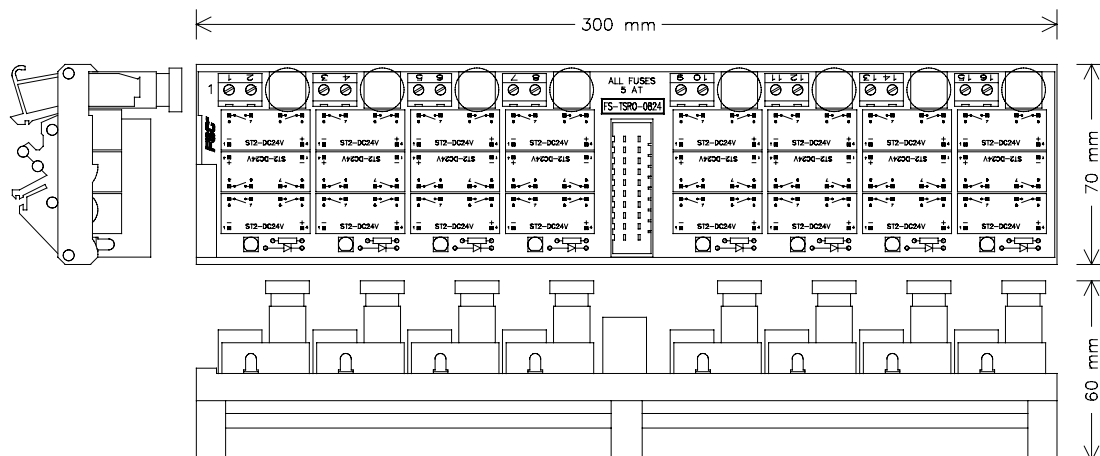


Figure 1 Mechanical layout

Eight channels can be connected to the FS-TSRO-0824 module via the system interconnection cable SIC-C-12. This cable is plugged into the SIC connector on the FTA module, and connects to a (redundant pair of) 10201/2/1 module(s).

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

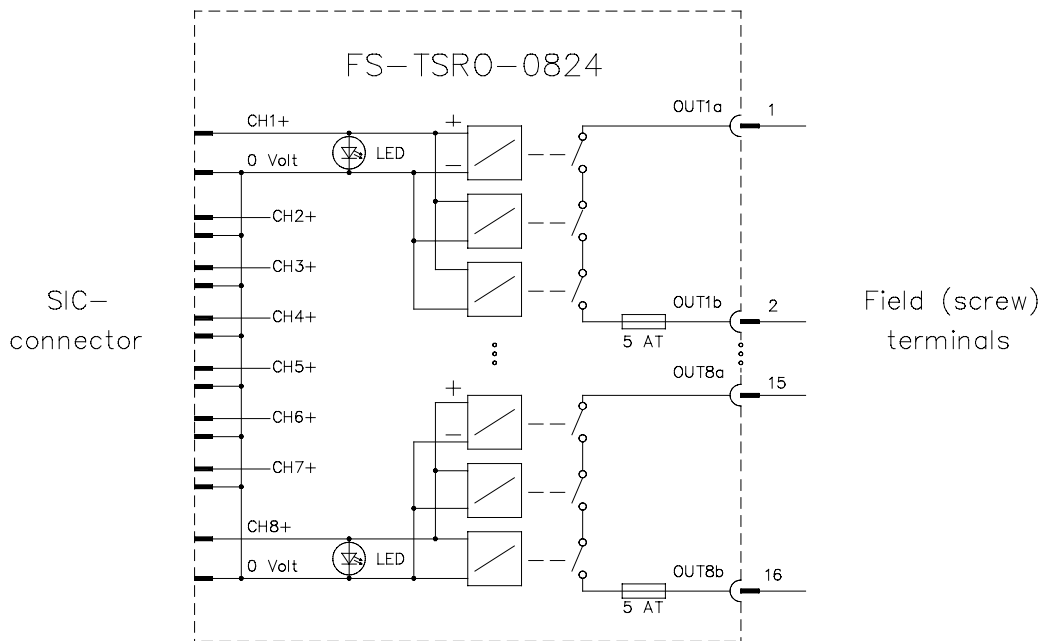


Figure 2 Schematic diagram

Applications

For details on applications and connection options for the FS-TSRO-0824 module refer to the 'SIC to FTA applications' data sheet.



Connections

The connections diagram of the FS-TSRO-0824 module is as follows:

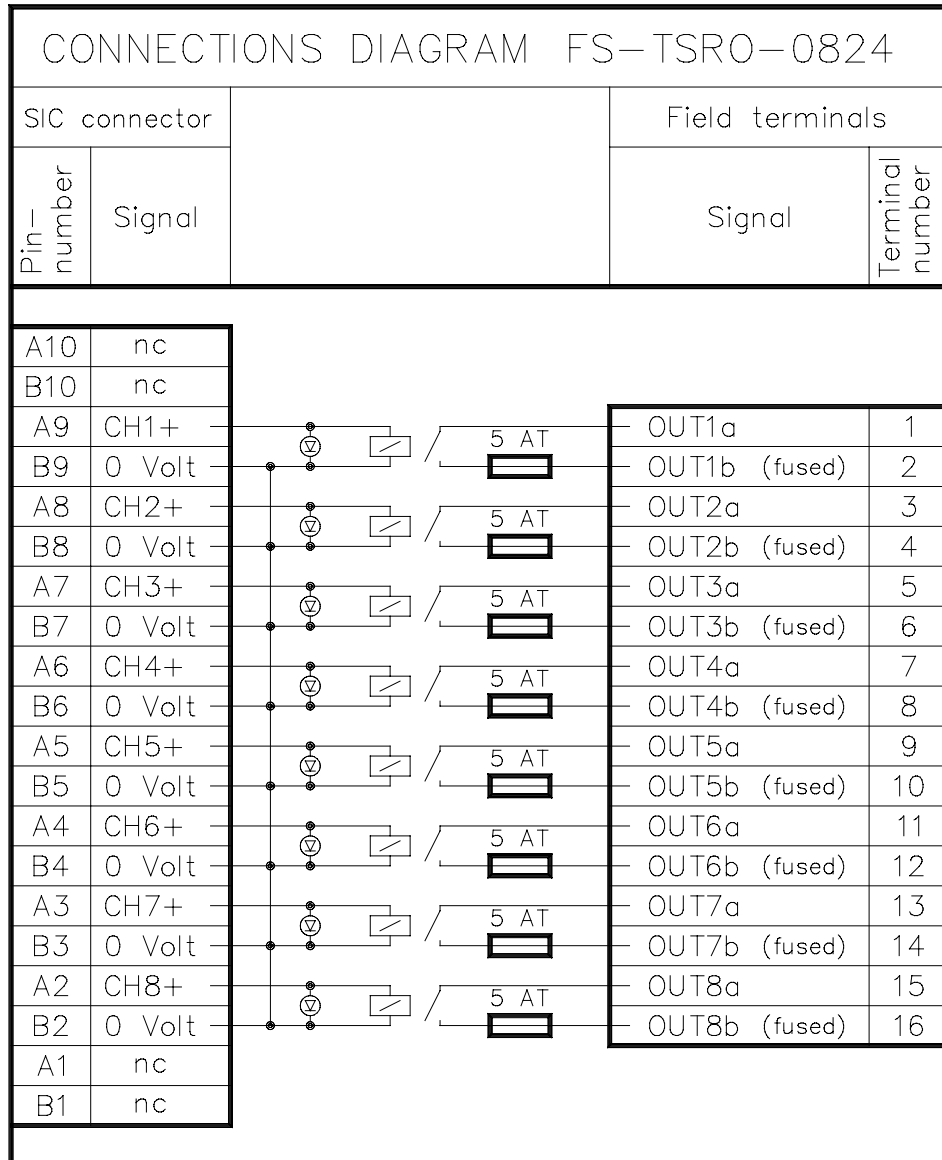


Figure 3 Connections diagram



Technical data	The FS-TSRO-0824 module has the following specifications:	
General	Type number:	FS-TSRO-0824
	Approvals:	CE, UL, TÜV approvals pending
	Safety class:	AK1-6
Input	Nominal input voltage:	24 Vdc
	Max. input voltage:	36 Vdc
	Relay pick-up voltage:	19.2 Vdc
	Input current:	typically 40 mA at 24 Vdc
Output	Number of output channels:	8
	Max. output current:	5 A (fused)
	Min. output current:	1 mA at 5 V
	Max. output voltage:	250 Vac / 250 Vdc
	Max. switched load:	1250 VA / 150 W (see Figure 4)
Fuses	Rating:	5 AT (slow-acting)
	Dimensions:	5 x 20 mm (0.2 x 0.78 in)
Physical	Module dimensions:	300 x 70 x 60 mm (L x W x H) 11.81 x 2.76 x 2.36 in (L x W x H)
	DIN EN rails:	TS32 / TS35 x 7.5
	Used rail length:	301 mm (11.85 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)
Environment	Ambient temperature:	–5°C to +60°C (23°F to 140°F)
Isolation	Isolation:	
	– coil to contact	3750 Vac
	– contact to contact	1200 Vac



Technical data (continued)

Relay contact	Max. switching load:	250 Vac, 5 A 24 Vdc, 5 A* 48 Vdc, 1 A* 110 Vdc, 500 mA*
	Max. switching frequency:	20 Hz
	Expected life:	
	– electrical	100,000 switch operations
	– mechanical	10,000,000 switch operations
Contact material:	gold flash over silver alloy	

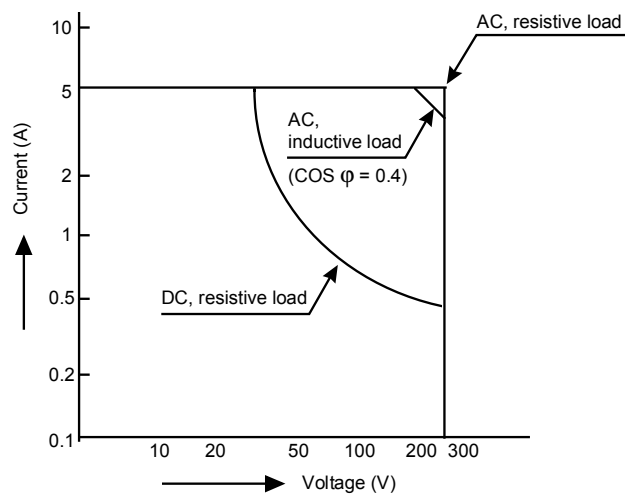


Figure 4 Maximum switched power

*** Note:**

When switching DC loads, only use resistive loads or inductive loads with spark suppression diodes.

While this information is presented in good faith and believed to be accurate, Honeywell Safety Management Systems B.V. disclaims the implied warranties of merchantability and fitness for a particular purpose and makes no express warranties except as may be stated in its written agreement with and for its customer. In no event is Honeywell Safety Management Systems B.V. liable to anyone for any indirect, special or consequential damages. The information and specifications in this document are subject to change without notice.