

## Safety Manager Hardware Reference

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# TSDO-0824

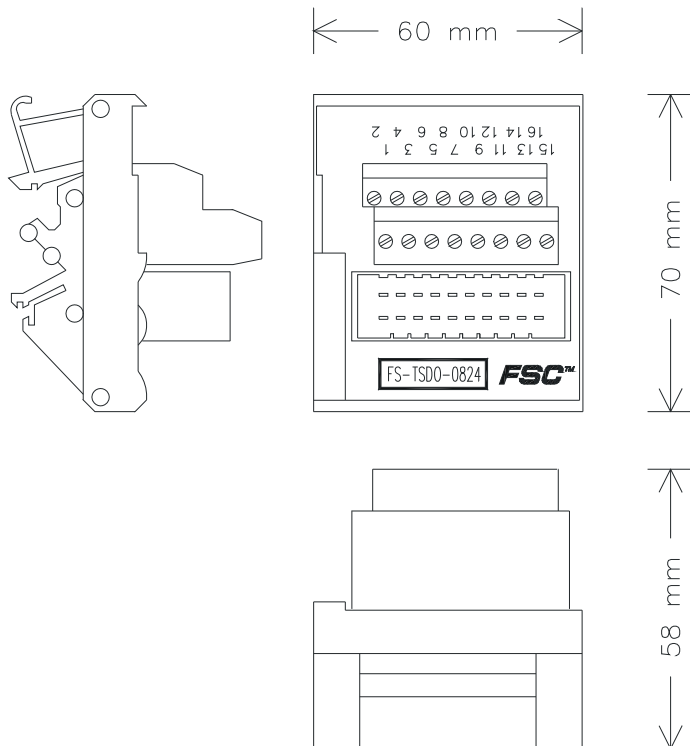
Safe digital output FTA (24 Vdc, 8 channels)

## Description

Field termination assembly module TSDO-0824 is the interface between system interconnection cable SICC-0001/Lx and the external field wiring (screw terminals). The eight channels of a (redundant pair of) SDO-0824 module(s) can be connected to the TSDO-0824 module via the system interconnection cable SICC-0001/Lx.

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

Figure 345 Mechanical layout



# Applications

For details on applications and connection options for the TSDO-0824 module, see section “SICC-0001/Lx” on page 715.

# Connections

The connections diagram of the TSDO-0824 module:

**Figure 346** Connections diagram

CONNECTIONS DIAGRAM FS–TSDO–0824				
SIC connector		Field terminals		
Pin number	Signal	Signal		Terminal number
A10	nc			
B10	nc			
A9	OUT1+	–	OUT1+	1
B9	OUT1–	–	OUT1– (0 Volt)	2
A8	OUT2+	–	OUT2+	3
B8	OUT2–	–	OUT2– (0 Volt)	4
A7	OUT3+	–	OUT3+	5
B7	OUT3–	–	OUT3– (0 Volt)	6
A6	OUT4+	–	OUT4+	7
B6	OUT4–	–	OUT4– (0 Volt)	8
A5	OUT5+	–	OUT5+	9
B5	OUT5–	–	OUT5– (0 Volt)	10
A4	OUT6+	–	OUT6+	11
B4	OUT6–	–	OUT6– (0 Volt)	12
A3	OUT7+	–	OUT7+	13
B3	OUT7–	–	OUT7– (0 Volt)	14
A2	OUT8+	–	OUT8+	15
B2	OUT8–	–	OUT8– (0 Volt)	16
A1	nc			
B1	nc			

## Technical data

The TSDO-0824 module has the following specifications:

<b>General</b>	Type numbers <sup>1</sup> :	FS-TSDO-0824
		FC-TSDO-0824
	Approvals:	CE, TUV, UL, CSA, FM
<b>Power</b>	Number of channels:	8
	Maximum voltage:	36 Vdc – IEC 1010 (1990), overvoltage category 3 (Table D.12)
	Maximum continuous current per channel:	1.5 A
	Actual maximum current defined by connected output module	
<b>Physical</b>	Module dimensions:	60 × 70 × 58 mm (L × W × H) 2.36 × 2.76 × 2.28 in (L × W × H)
	DIN EN rails:	TS32 / TS35 × 7.5
	Used rail length:	61 mm (2.40 in)
<b>Termination</b>	Screw terminals:	
	• Max. wire diameter	2.5 mm <sup>2</sup> (AWG 14)
	• Strip length	7 mm (0.28 in)
	• Tightening torque	0.5 Nm (0.37 ft-lb)

- <sup>1</sup> FS-type modules are non conformal coated modules.  
FC-type modules are conformal coated modules. Conformal coated modules have the letters "CC" preceding the version number.