

DATA SHEET

TU835V1 Compact Product Suite hardware selector



The TU835V1 MTU can have up to 8 I/O channels. The maximum rated voltage is 50V and maximum rated current is 2 A per channel. The MTU distributes the ModuleBus to the I/O module and to the next MTU. It also generates the correct address to the I/O module by shifting the outgoing position signals to the next MTU.

The MTU can be mounted on a standard DIN rail. It has a mechanical latch that locks the MTU to the DIN rail. The latch can be released with a screwdriver.

Two mechanical keys are used to configure the MTU for different types of I/O modules. This is only a mechanical configuration and it does not affect the functionality of the MTU or the I/O module. Each key has six positions, which gives a total number of 36 different configurations.

Features and benefits

- Up to 8 channels of field signals and process power connections.
- Each channel has one fused transducer power terminal and one signal connection.
- Process voltage can be connected to 2 individually isolated groups.
- Connections to ModuleBus and I/O modules.
- Mechanical keying prevents insertion of the wrong I/O module.
- Latching device to DIN rail for grounding.
- DIN rail mounting.

General info		
Article number	3BSE013236R1	
Туре	Extended	
Connection	Terminal block	
Channels	8	
Voltage	50 V	
Mounting	Both directions	
Mounting detail	55 °C (131 °F)	
Use with I/O	AI810, AI815 and AI845	
Process connections	16 up to 8 I/O channels (2 terminals per channel) 4 Process power 4 Process power (0V)	
Single/redundant I/O	Single	

Detailed data		
Maximum current per I/O channel	2 A	
Maximum current process connection	8 A	
Acceptable wire sizes	Solid: 0.2 - 4 mm² Stranded: 0.2 - 2.5 mm², 24 - 12 AWG Recommended torque: 0.5 - 0.6 Nm Stripping length: 7 mm	
Dielectric test voltage	500 V a.c.	

Environment and certification		
CE mark	Yes	
Electrical safety	EN 61010-1, UL 61010-1, EN 61010-2-201, UL 61010-2-201	
Hazardous Location	C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2	
Marine certification	ABS, BV, DNV-GL, LR	
Temperature, Operating	0 to +55 °C (+32 to +131 °F), approvals are issued for +5 to +55 °C	
Temperature, Storage	-40 to +70 °C (-40 to +158 °F)	
Pollution degree	Degree 2, IEC 60664-1	
Corrosion protection	ISA-S71.04: G3	
Relative humidity	5 to 95 %, non-condensing	
Max ambient temperature	55 °C (131 °F)	
Protection class	IP20 according to IEC 60529	
Mechanical operating conditions	IEC/EN 61131-2	
EMC	EN 61000-6-4, EN 61000-6-2	
Overvoltage categories	IEC/EN 60664-1, EN 50178	
Equipment class	Class I according to IEC 61140; (earth protected)	
RoHS compliance	EN 50581:2012	
WEEE compliance	DIRECTIVE/2012/19/EU	

Dimensions	
Width	126 mm (5 in.) including connector, 120.5 mm (4.74 in.) edge to edge installed
Depth	64 mm (2.52 in.) including terminals
Height	110 mm (4.3 in.)
Weight	0.26 kg (0.57 lbs)



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