

DATA SHEET

TU830V1 System 800xA hardware selector



The TU830V1 MTU can have up to 16 I/O channels and two process voltage connections. Each channel has two I/O connections and one ZP connection. The MTU is a passive unit used for connection of the field wiring to the I/O modules. It also contains a part of the ModuleBus.

The process voltage can be connected to two individually isolated groups. Each group has a 6.3 A fuse. The maximum rated voltage is 50 V and maximum rated current is 2 A per channel. The MTU distributes the ModuleBus to the I/O module end 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.

Features and benefits

- Complete installation of I/O modules using 3-wire connections, fuses and field power distribution.
- Up to 16 channels of field signals and process power connections.
- 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 | 3BSE013234R1 |
| Туре | Extended |
| Connection | Terminal block |
| Channels | 16 |
| Voltage | 50 V |
| Mounting | Both directions |
| Mounting detail | 55 ºC (131 °F) |
| Use with I/O | AI810, AI815, AI820, AI830, AI830A, AI835, AI835A, AI843, AI845, AO810, AO810V2, AO815, AO820, AO845, AO845A, DI810, DI811, DI814, DI818, DI830, DI831, DI840, DI880, DI885, DO810, DO814, DO815, DO818, DO840, DO880, DP820 and DP840 |
| Process connections | 56 |
| Single/redundant I/O | Single |

| Detailed data | | |
|------------------------------------|---|--|
| Maximum current per I/O channel | 2 A | |
| Maximum current process connection | 5 A | |
| Acceptable wire sizes | Solid: 0.2 - 4 mm ² Stranded: 0.2 - 2.5 mm ² , 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 | IEC 61131-2, UL 61010-1, UL 61010-2-201 | |
| Hazardous Location | C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2 | |
| Marine certification | ABS, BV, DNV-GL, LR | |
| Protection rating | IP20 according to IEC 60529 | |
| Corrosive atmosphere ISA-S71.04 | G3 | |
| Climatic operating conditions | 0 to +55 °C (Storage -40 to +70 °C), RH=5 to 95 % no condensation, IEC/EN 61131-2 | |
| Pollution degree | Degree 2, IEC 60664-1 | |
| Mechanical operating conditions | IEC/EN 61131-2 | |
| EMC | EN 61000-6-4, EN 61000-6-2 | |
| Overvoltage categories | IEC/EN 606641, 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 | 0.28 kg (0.6 lbs) | |



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