

TU831V1

Compact Product Suite hardware selector



The TU831V1 MTU can have up to 8 I/O channels. The maximum rated voltage is 250 V and maximum rated current is 3 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.

Features and benefits

- Greater connection area for larger wires.
- Up to 8 isolated channels of field signals.
- 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 | 3BSE013235R1 |
| Type | Extended |
| Connection | Terminal block |
| Channels | 8 |
| Voltage | 250 V |
| Mounting | Both directions |
| Mounting detail | 55 °C (131 °F) |
| Use with I/O | DI820, DI821, DO820, and DO821 |
| Process connections | 16 up to 8 I/O channels (2 terminals per channel) |
| Single/redundant I/O | Single |

| Detailed data | |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum current per I/O channel | 3 A |
| Acceptable wire sizes | Solid: 0.2 - 6mm ² Stranded: 0.2 - 4 mm ² , 24 - 10 AWG Recommended torque: 0.5 - 0.6 Nm Stripping length: 7 mm |
| Dielectric test voltage | 2000 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 | - |
| 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 | 0.22 kg (0.48 lbs) |

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