

DATA SHEET

TU811V1

Compact Product Suite hardware selector



The TU811V1 is a 8 channel 250 V compact module termination unit (MTU) for the S800 I/O. 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 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.

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

- Compact installation of I/O modules.
- 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 | 3BSE013231R1 |
| Туре | Compact |
| Connection | Terminal block |
| Channels | 8 |
| Voltage | 250 V |
| Mounting | Both directions |
| Mounting detail | Horizontal 55 C ^o (131 °F) Vertical 40 °C (104 °F) |
| Use with I/O | DI820, DI821, DO820, and DO821 |
| Single/redundant I/O | Single |

| Detailed data | | |
|---------------------------------|---|--|
| Maximum current per I/O channel | 3 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 | 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 | |
| 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), for vertical mounting 40 °C (104 °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 | |
|--|--|
| 64 mm (2.52 in.) including connector, 58.5 mm (2.3 in.) edge to edge installed | |
| 64 mm (2.52 in.), including terminals | |
| 170 mm (6.7 in.) including latch | |
| 0.17 kg (0.37 lbs) | |
| | |



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