

TU839

System 800xA hardware selector



The TU839 MTU can have up to 8 I/O channels and two groups of connections for sensor power distribution. Each channel has two I/O connections. The process voltage can be connected to two individually isolated groups for sensor power distribution. Each group has a 200 mA fuse. The maximum rated voltage is 250 V and maximum rated current is 1 A per channel. It is recommended that the fuse rating be chosen to meet the applications needs.

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.

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

- 8 individually isolated I/O channels.
- Two individually isolated, fused groups for sensor power distribution.
- 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 | 3BSE046966R1 |
| 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 and DI825 |
| Process connections | 28 up to 8 I/O channels (2 terminals per channel) 2x6 Process Power terminals 0.2 A |
| Single/redundant I/O | Single |

Detailed data

| | |
|------------------------------------|---|
| Maximum current per I/O channel | 1 A |
| Maximum current process connection | 10 A |
| Acceptable wire sizes | Stranded: 24-14 AWG 0.2-2,5 mm ² (solid and stranded) Recommended torque 0.5 Nm. |
| Dielectric test voltage | 2300 V a.c. channel to ground 1350 V a.c. channel to channel |

Environment and certification

| | |
|---------------------------------|---|
| CE mark | Yes |
| Electrical safety | IEC 61131-2, UL 508 |
| Hazardous Location | - |
| Marine certification | - |
| 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 60664-1, EN 50178 |
| Equipment class | Class I according to IEC 61140; (earth protected) |
| RoHS compliance | EN 50581:2012 |

Dimensions

| | |
|--------|---|
| Height | 110 mm (4.3 in.) |
| 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 |
| Weight | 0.28 kg (0.6 lbs) |

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