

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
WEEE compliance	DIRECTIVE/2012/19/EU

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)

www.abb.com/800xA
www.abb.com/controlsystems

800xA is a registered or pending trademark of ABB. All rights to other trademarks reside with their respective owners.

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2018 ABB All rights reserved