

TU854

ABB Ability™ System 800xA® hardware selector



The TU854 MTU can have up to 8 I/O channels and 2+2 process voltage connections. Each channel has two I/O connections and one ZP connection. Input signals are connected via individual shunt sticks, TY801. The shunt stick is used to choose between voltage and current input. The maximum rated voltage is 50 V and maximum rated current is 2 A per channel. The MTU distributes the two ModuleBuses, one to each I/O module and to the next MTU. It also generates the correct address to the I/O modules 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.

Four mechanical keys, two for each I/O module, 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

- Up to 8 channels of field signals and process power connections.
- Connections to two ModuleBuses and I/O modules.
- Mechanical keying prevents insertion of the wrong I/O module.
- Latching device to DIN rail for grounding.

General info	
Article number	3BSE069966R1
Type	Redundant
Connection	25 pin D-sub
Channels	16
Voltage	50 V
Mounting	Horizontal
Mounting detail	55 °C (131 °F)
Use with I/O	AI845, AI880A and DP840
Process connections	up to 8 I/O channels (2 terminals per channel) D-sub connector 25 pin (male)
Single/redundant I/O	Redundant

Detailed data	
Maximum current per I/O channel	2 A
Maximum current process connection	5 A
Dielectric test voltage	500 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	ATEX Zone 2 to be released 2016
Marine certification	-
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	131 mm (5.16 in.) including connector, 124 mm (4.88 in.) edge to edge installed
Depth	64 mm (2.52 in.) including terminals
Height	186.5 mm (7.34 in.) including locking device
Weight	260 g (9.17 oz)

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