

# TU840

## ABB Ability™ System 800xA® hardware selector



The TU840 is a module termination unit (MTU) for redundant configuration of Optical ModuleBus Modem TB840/TB840A.

The MTU is a passive unit having connections for power supply, double electrical ModuleBus, two TB840/TB840A and a rotary switch for cluster address (1 to 7) setting.

Four mechanical keys, two for each position, are used to configured the MTU for the right types of modules. Each key has six positions, which gives a total number of 36 different configurations. The configurations can be changed with a screwdriver.

Termination Unit TU840 connects TB840/TB840A to redundant I/O. Termination Unit TU841 connects TB840/TB840A to non-redundant I/O.

### Features and benefits

- A rotary switch for cluster address setting
- Mechanical keying prevents insertion of wrong module type
- Double ModuleBus connection
- Latching device to DIN rail for locking and grounding
- DIN rail mounted

#### General info

Article number	3BSE020846R1
Communication protocol	Modulebus
Master or slave	N/A
Line redundancy	Yes
Module redundancy	Yes
Hot Swap	No
Type	Redundant TB840/TB840A, Redundant I/O, Single Power
Power input	24 V d.c (19.2 -30 V)
Mounting	Vertical or Horizontal

**Detailed data**

Connector	N/A
24 V consumption typ.	N/A
ModuleBus current distribution	Maximum 5 V 1.5 A 24 V 1.5 A
Mechanical Keys	36 different combinations
Acceptable wire sizes	Solid: 0.2 - 2.5 mm <sup>2</sup> Stranded: 0.2 -2.5 mm <sup>2</sup> , 24 -12 AWG Recomended torque: 0.5 Nm
Rated insulation voltage	50 V
Dielectric test voltage	500 V a.c
Power dissipation	2.0 W

**Environment and certification**

CE- marking	Yes
Electrical Safety	EN 61010-1, UL 61010-1, EN 61010-2-201, UL 61010-2-201
Hazardous location	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2
Marine certificates	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)
Relative humidity	5 to 95 %, non-condensing
Max ambient temperature	55 °C (131 °F), for vertical mounting 40 °C (104 °F)
Equipment class	Class I according to IEC 60536; (earth protected)
Ingress protection	IP20 according to IEC 60529
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS
WEEE compliance	DIRECTIVE/2012/19/EU

**Dimensions**

Width	124 mm (4.88 in.)
Height	186 mm (7.32 in.) including latch
Depth	47 mm (1.85 in.)
Weight	0.45 kg (0.99 lbs.)

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