

# TB842

## System 800xA hardware selector



TB842 ModuleBus Optical Port is a communication interface between the CI801 or CI840/CI840A FCI and the TB820/TB820V2/TB840/TB840A ModuleBus Modem of an I/O cluster or ABB drives units via the Optical ModuleBus. TB842 connects to CI801 via TB806 and to CI840/CI840A via TU847 and TB806 for single I/O or via TU846 and TB846 for redundant I/O.

TB842 can be used in both a simplex optical configuration as well as in a duplex optical configuration. In a simplex configuration, the optical ModuleBus nodes are connected in a ring. In a duplex configuration, the optical ModuleBus nodes are connected in a row. TB842 has a connector for fiber optic connections and a connection to the communication interface module.

The module is equipped with Transmitter/Receiver for up to 10 Mbit/s. Both plastic and HCS (Hard Clad Silica) optic fiber with connectors (Agilent's, former Hewlett-Packard, Versatile Link) can be used with the TB842.

### Features and benefits

- 1 fiber optic port for the Optical ModuleBus expansion
- Connection to CI801 and CI840/CI840A

# More info

Opto Cable for TB842 according to HP.

Plastic Optical Fiber (POF) (TK811V... or TK812V...) up to 15 meters.

- Extra low loss attenuation
- Simplex or duplex cable
- Latching simplex or duplex connector.
- Cable attenuation maximum 4 dB Hard Clad Silica (HCS) fiber up to 200 meters.
- Riser or plenum
- Simplex or duplex cable
- Latching simplex or duplex connector
- Cable attenuation maximum 2 dB

## General info

Protocol	ABB's Modulebus
Article number	3BSE022464R1
Master or slave	Not Applicable
Line redundancy	Yes
Module redundancy	Yes
Hot Swap	Yes
Used together with HI Controller	No
Mounting	Vertical or Horizontal

## Detailed data

Connector	Agilent's, former Hewlett-Packard, Versatile Link
24 V consumption typ.	20 mA
ModuleBus current distribution	Fiber optic interface, one transmit and one receive connection for max. 10 Mbit/s. Wavelength 650 nm
Power dissipation	0.5 W

## Environmental and certification

Temperature, Operating	55° C (131° F) horizontal mounted. 40° C (104° F) vertical mounted
Temperature, Storage	-25° C (-13° F) to +70° C (158° F)
Equipment class	Class I according to IEC 60536; (earth protected)
Ingress protection	IP20 according to IEC 60529
CE- marking	Yes
Electrical Safety	cULus
Hazardous location	cULus Hazardous Location Class1 Zone 2, ATEX Zone 2
Marine certificates	ABS, BV, DNV-GL, LR, RS, CCS
RoHS compliance	EN 50581:2012
WEEE compliance	DIRECTIVE/2012/19/EU

## Dimensions

Height	56.7 mm (2.23")
Width	17.6 mm (0.69")
Depth	42.3 mm (1.67")
Weight (including base)	90 g (0.20 lbs.)

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