

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 | Slave |
| 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) |
| Temperature, Storage | -25° C to +70° C |
| Equipment class | Class I according to IEC 60536; (earth protected) |
| Ingress protection | IP20 according to IEC 60529 |
| CE- marking | Yes |
| Electrical Safety | cULus El. safety |
| 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 |

Dimensions

| | |
|-------------------------|-------------------|
| Height | 56.7 mm (2.23") |
| Width | 17.6 mm (0.69") |
| Depth | 42.3 mm (1.67") |
| Weight (including base) | 40 g (0.088 lbs.) |

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