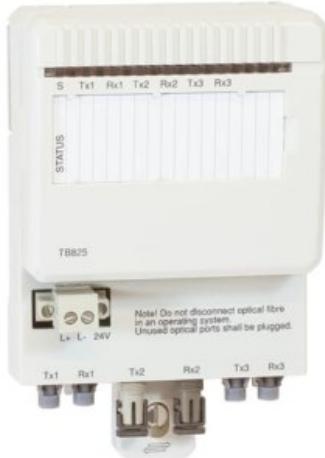


DATA SHEET

TB825 (Multi Mode)

Compact Product Suite hardware selector



S800 I/O is a comprehensive, distributed and modular process I/O system that communicates with parent controllers and PLCs over industry-standard field buses. The TB825 ModuleBus Optical media converter, converts between plastic opto fiber or HCS fiber with versatile link connectors and glass optical fiber with ST connectors.

The TB825 is built in S800L mechanics and DIN rails mounted. TB825 allows distribution of the optical ModuleBus up to 1000 m per cluster in star configurations.

Features and benefits

- Converts between plastic or HCS opto fiber and glass optical fiber
- DIN rail mounted
- Multi Mode functionality
- S800L mechanics

General info

Article number	3BSE036634R1
Communication protocol	Modulebus
Master or slave	Slave
Line redundancy	No
Module redundancy	No
Hot Swap	No
Used together with HI Controller	Yes

Detailed data

24 V consumption typ.	96 mA
-----------------------	-------

Environment and certification

CE- marking	Yes
Electrical Safety	EN 61010-1, UL 61010-1, EN 61010-2-201, UL 61010-2-201
Hazardous location	C1 Div 2 cULus, C1 Zone 2 cULus, 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)
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), for vertical mounting 40 °C (104 °F)
Protection class	IP20 according to EN60529, IEC 529
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS
WEEE compliance	DIRECTIVE/2012/19/EU

Dimensions

Width	85.6 mm (3.37 in.)
Height	136 mm (5.35 in.) including latch
Depth	58.5 mm (2.30 in.)
Weight	0.21 kg (0.46 lbs)

solutions.abb/compactproductsuite
solutions.abb/controlsystems

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© 2026 ABB All rights reserved