

DATA SHEET

TB820V2

ABB Ability™ System 800xA® 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 TB820V2 ModuleBus Modem is a fiber optic interface to the ModuleBus. The ModuleBus Modem has an electric and an optical interface which are logically the same bus. A maximum of 12 I/O modules can be connected to the electrical ModuleBus and up to seven clusters can be connected to the fiber optic ModuleBus. The fiber optic interface is intended for local distribution of I/O clusters and where more than 12I/O modules are required in an I/O station.

Features and benefits

- 2 fiber optic ports to optical ModuleBus
- ModuleBus (electrical) to the I/O Modules
- Supervisory functions of I/O ModuleBus and power supply
- Isolated power supply to I/O modules
- TB820/TB820V2 has a rotary switch that selects its cluster number, 1 to 7, on the optical ModuleBus

General info		
Article number	3BSE013208R1	
Communication protocol	Modulebus	
Master or slave	Slave	
Line redundancy	No	
Module redundancy	No	
Hot Swap	No	
Used together with HI Controller	No	

Detailed data	
24 V consumption typ.	100 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	DIRECTIVE/2011/65/EU (EN 50581:2012)	
WEEE compliance	DIRECTIVE/2012/19/EU	

Dimensions	
Width	58 mm (2.39 in.)
Height	170 mm (6.7 in.) including latch
Depth	122 mm (4.8 in.)
Weight	0.3 kg (0.66 lbs)



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