TC811
System 800xA hardware selector

Select I/O is an Ethernet networked, single channel granular I/O system for the ABB Ability™ System 800xA automation platform. Select I/O helps decouple project tasks, minimizes the impact of late changes and supports standardization of I/O cabinetry ensuring automation projects are delivered on-time and under budget. A Signal Conditioning Module (SCM) performs the necessary signal conditioning and powering of the connected field device for one I/O channel.

TC811 is an Ethernet Adapter for fiber optic media with built in 2-port switch. Hosts two LC ports. For redundant configuration two Fieldbus Communication Interfaces CI845, two Ethernet Adapters TC811 and one TU860 or one TU865 are needed.

Features and benefits

- Can be used as single or redundant
- Supports both Select I/O and S800 on Ethernet
- Hosts two LC ports
- Built-in switch
- Built-in diagnostics
- Supports hot swap
- Can be used in hazardous area
- Mechanical locking slider which turns off power before removal
- Mechanical keying
- LED indicators

General info	
Article number	3BSE078714R1
Type	Ethernet Adapter for fiber optic media
Redundancy	Yes
Hot swap	Yes
Mechanics	Select I/O
Type of external output	100 BASE-FX with LC connector
Number of external ports	2
Type of connecting cable	9/125 μm single mode fiber (1310 nm nominal wavelength)
Maximum length of cable	27.5 km

Detailed data

Power dissipation	2 W
24 V consumption typ.	80 mA
Installation in Hazardous Locations	ATEX – II 3G Ex eC IIC T4 Gc cULus (pending)

Environment and certification

Temperature, Operating	-40°C (-40°F) to +65°C (149°F)
Temperature, Storage	-40°C (-40°F) to +85°C (185°F)
Pollution degree	Pollution Degree 2 acc. to IEC 60664-1
Relative humidity	5 to 95 % no condensation
Altitude	-1000 to 3000 m, (-100 … 2000 m for Zone 2/Class I Div 2)
Mechanical operating conditions	IEC 61131-2
EMC	IEC/EN 61000-6-4, IEC/EN 61000-6-2
Overvoltage categories	Category II, IEC 60664-1
Protection class	IP20 according to IEC 60529
CE-marking	Yes
Electrical Safety	IEC/EN 61010-1, IEC 61010-2-201, UL 61010-2-201, CSA C22.2 No. 61010-2-201
Hazardous Area	EN 60079-0, EN60079-7
Marine certification	DNV-GL, ABS
Corrosive atmosphere	G3 (ISA-S71.04)
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)
WEEE compliance	DIRECTIVE/2012/19/EU

Dimensions

Width	24.5 mm (0.96 in.)
Depth	101.3 mm (3.99 in.)
Height	110 mm (4.33 in.)
Weight (including base)	161 g (0.35 lbs)

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