

FTB840K01

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.

The FTB840 is a redundant terminal signal block with 4 screw terminals to be used with a redundant pair of Signal Conditioning Modules. The FTB is installed on the MTU for Select I/O (TUS810) and includes a keying mechanism that is set to a specific code when an SCM is first inserted to ensure only the same type of SCM can be installed in that slot. The key can be reset by removing and reinserting the FTB. (10 pieces per package)

Features and benefits

- Two slots for connection of a redundant SCM pair
- Four screw terminals for connection of wires
- Coding system with 5 coding fingers for self-learning and resettable coding of the SCM type
- Can be used in hazardous areas
- Hole for each terminal for connecting test probes (for measurements)

General info	
Article number	3BSE093007R1 (FTB840K01)
Type	Field Terminal Block
Mechanics	Select I/O

Detailed data	
Installation in Hazardous Locations	<p>ATEX II 3G Ex ec IIC T4 Gc II 3G Ex ic ec IIC T4 Gc(3) (Pending)</p> <p>IECEX (Pending) Ex ec IIC T4 Gc Ex ic ec IIC T4 Gc</p> <p>cULus (Pending) CL I, ZN 2, AEx ec IIC T4 Gc, Ex ec IIC T4 Gc X CL I, DIV 2, Groups A-D T4</p>

Environment and certification	
Temperature, Operating	-40°C (-40°F) to +70°C (158°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	20 mm (0.79 in.)
Depth	85.2 mm (3.35 in.)
Height	74.8 mm (2.94 in.)
Weight (including base)	80 g (0.08 lbs)

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