

FTB810K01

ABB Ability™ 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 FTB810 is a field terminal block with 4 screw terminals to be used with a single Signal Conditioning Module. 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

- One slot for connection of SCM
- 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	3BSE088180R1
Type	Field Terminal Block
Redundancy	No
Intrinsic safety	No
Mechanics	Select I/O

Detailed data

Installation in Hazardous Area/Locations	Yes/Yes
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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 %, non-condensation
Altitude	-1000 to 5000 m (restrictions apply)
Mechanical operating conditions	IEC 61131-2
EMC	IEC/EN 61000-6-4, IEC/EN 61000-6-2
Overvoltage categories	Category II acc. to IEC 60664-1
Protection class	IP20 acc. to IEC 60529
CE-marking	Yes
UKCA	Yes
Electrical Safety	IEC/EN 61010-1 UL 61010-1 CSA-C22.2 No. 61010-1-12 IEC/EN 61010-2-201 UL 61010-2-201 CSA C22.2 No. 61010-2-201
Marine certification	DNV, ABS
Corrosive atmosphere	G3
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS
WEEE compliance	EU
Hazardous Area ATEX	II 3G Ex nA IIC T4 Gc II 3G Ex ec IIC T4 Gc II 3G Ex ic nA IIC T4 Gc II 3G Ex ic ec IIC T4 Gc
Hazardous Area IECEx	Available on IPA: II 3G Ex nA IIC T4 Gc II 3G Ex ec IIC T4 Gc II 3G Ex ic nA IIC T4 Gc II 3G Ex ic ec IIC T4 Gc
Hazardous Location US/CAN	cULus CL I, ZN 2, AEx ec IIC T4 Gc, Ex ec IIC T4 Gc X CL I, ZN 2, AEx nA IIC T4 Gc, Ex nA IIC T4 Gc X CL I, DIV 2, Groups A-D T4
Hazardous Area CCC	Ex ec IIC T4 Gc Ex ec ic IIC T4 Gc

Dimensions	
Width	10 mm (0.39 in.)
Depth	85.2 mm (3.35 in.)
Height	74.8 mm (2.94 in.)
Weight (including base)	40 g (0.08 lbs)

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