

DATA SHEET

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
Туре	Field Terminal Block
Redundancy	No
Intrinsic safety	No
Mechanics	Select I/O

Detailed data	
Installation in Hazardous Area/Locations	Yes/Yes

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 nA 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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