

TB861V009

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.

A cluster of up to 12 I/O units can be connected to one FCI. If they are all on the same DIN rail, the I/O MTUs are connected to each other. The Modulebus then goes through the I/O MTUs.

If not all the I/O MTUs can fit on the same DIN rail, TB861 can be used to extend the Modulebus to the first I/O MTU on the next DIN rail. The outlet part is connected to the bottom of the last I/O MTU on the first DIN rail. The inlet part is connected to the top of the first I/O MTU on the second DIN rail. TB861V009 extends the Modulebus from one DIN rail to another. Length 0.9 m.

Features and benefits

- Extends the Modulebus from one DIN-rail to another. Length 0.9 m.
- Available in three lengths
- DIN rail mounted. 2 locking devices (one locks outlet to DIN rail and one locks inlet to DIN rail).

General info	
Article number	3BSE088163R1
Type	Compact Modulebus Extension
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 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	48 mm
Depth	Length 900 mm
Height	150.5 mm
Weight (including base)	668 g

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