

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

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|-------------------------|---------------|
| Width | 48 mm |
| Depth | Length 900 mm |
| Height | 150.5 mm |
| Weight (including base) | 668 g |

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