

# TB861V011

## Compact Product Suite 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. TB861V011 extends the Modulebus from one DIN-rail to another. Length 1.1 m.

## Features and benefits

- Extends the Modulebus from one DIN-rail to another. Length 1.1 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 | 3BSE090352R1                |
| 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<br>UL 61010-1<br>CSA-C22.2 No. 61010-1-12<br>IEC/EN 61010-2-201<br>UL 61010-2-201<br>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<br>II 3G Ex ec IIC T4 Gc<br>II 3G Ex ic nA IIC T4 Gc<br>II 3G Ex ic ec IIC T4 Gc                                    |
| Hazardous Area IECEx            | Available on IPA:<br>II 3G Ex nA IIC T4 Gc<br>II 3G Ex ec IIC T4 Gc<br>II 3G Ex ic nA IIC T4 Gc<br>II 3G Ex ic ec IIC T4 Gc               |
| Hazardous Location US/CAN       | cULus<br>CL I, ZN 2, AEx ec IIC T4 Gc, Ex ec IIC T4 Gc X<br>CL I, ZN 2, AEx nA IIC T4 Gc, Ex nA IIC T4 Gc X<br>CL I, DIV 2, Groups A-D T4 |
| Hazardous Area CCC              | Ex ec IIC T4 Gc<br>Ex ec ic IIC T4 Gc   |

| Dimensions              |                |
|-------------------------|----------------|
| Width                   | 48 mm          |
| Depth                   | Length 1100 mm |
| Height                  | 150.5 mm       |
| Weight (including base) | 759 g          |

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