

CI855

Compact Product Suite hardware selector



The MasterBus 300 (MB300) communication protocol used in communication between controllers, and operator stations in installations based on Advant OCS with Master software is also implemented in the System 800xA controller AC 800M. MB 300 communication is realized in AC 800M by communication interface CI855, which is connected to the CEX-Bus through a baseplate.

The baseplate, TP853, houses RJ45 connectors for two Ethernet ports, for network redundancy and provides a simple DIN-rail mounting.

A key benefit of the CI855 interface is the possibility of having peer-to-peer communication between new plant sections with System 800xA using the AC 800M controller and existing sections with MB 300-based controllers like Advant Controller 410, Advant Controller 450, and MasterPiece 200/1.

Features and benefits

- MB 300 network redundancy
- Clock synchronization
- DataSet communication
- Hot swap
- Per to peer communication

| General info | |
|----------------------------------|---------------------------|
| Article number | 3BSE018106R1 |
| Communication protocol | ABB's MasterBus 300 |
| Master or slave | Master |
| Transmission speed | 10 Mbit/s, 200 Datasets/s |
| Line redundancy | Yes |
| Module redundancy | No |
| Hot Swap | Yes |
| Used together with HI Controller | Yes |

| Detailed data | |
|-----------------------|----------------------|
| Max units on CEX bus | 12 |
| Connector | RJ-45 female (8-pin) |
| 24 V consumption typ. | typ 150 mA |

| Environment and certification | |
|-------------------------------|--------------------------------------|
| Temperature, Operating | +5 to +55 °C (+41 to +131 °F) |
| Temperature, Storage | -40 to +70 °C (-40 to +158 °F) |
| Corrosion protection | G3 compliant to ISA 71.04 |
| Protection class | IP20 according to EN60529, IEC 529 |
| CE- marking | Yes |
| Marine certificates | BV, DNV-GL, LR |
| RoHS compliance | DIRECTIVE/2011/65/EU (EN 50581:2012) |
| WEEE compliance | DIRECTIVE/2012/19/EU |

| Dimensions | |
|-------------------------|--------------------|
| Width | 59 mm (2.3 in.) |
| Height | 185 mm (7.3 in.) |
| Depth | 127.5 mm (5.0 in.) |
| Weight (including base) | 700 g (1.5 lbs) |

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