

CI857

Compact Product Suite hardware selector



INSUM integration into AC 800M supports higher functionality integration, multidrop configurations, time distribution and time stamping in the switchgear, and utilizes standard Ethernet technology for longer communication distances. The speed of this solution is typically 500 ms for one closed loop (indication from one motor until operation of another, assuming 250 ms cycle time in control execution).

AC 800M controllers access the INSUM functions through function blocks in the INSUM Communication Library. The CI857 is powered by the processor unit, via the CEX-Bus, and therefore does not require any additional external power source.

Features and benefits

- Maximum number of MCUs (or other INSUM devices) per AC 800M: – 256 MCUs (or other INSUM devices) per AC 800M with PM864 or PM866. – 128 MCUs (or other INSUM devices) per AC 800M with PM861.
- Maximum 6 CI857 per AC 800M.
- Maximum 128 MCUs (or other INSUM devices) per CI857.
- Maximum 2 INSUM TCP/IP Gateways per CI857.
- Maximum 128 INSUM devices per INSUM TCP/IP gateway.
- Four LonWorks subnets per INSUM TCP/IP gateway.
- Maximum 32 devices per LonWorks subnet.

| General info | |
|----------------------------------|--------------|
| Article number | 3BSE018144R1 |
| Communication protocol | ABB's INSUM |
| Master or slave | Master |
| Transmission speed | 10 Mbit/s |
| Line redundancy | No |
| Module redundancy | No |
| Hot Swap | Yes |
| Used together with HI Controller | Yes |

| Detailed data | |
|-----------------------|----------------------|
| Max units on CEX bus | 6 |
| Connector | RJ-45 female (8-pin) |
| 24 V consumption typ. | typ 150 mA |

| Environment and certification | |
|-------------------------------|--------------------------------------|
| Temperature, Operating | 0 to +55 °C (+32 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 |
| 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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