

Measuring and monitoring relays

Benefits and advantages

CM-N range: Multifunctional



- < 45 mm wide housing
- < Output contacts: 2 c/o (SPDT) contacts
- < Continuous voltage range (24-240 V AC/DC) or single-supply
- < Setting and operation via front-face operating controls
- < Adjustment of threshold values and switching hysteresis via direct reading scale
- < Adjustable time delays
- < Integrated and snap-fitted front-face marker label
- < Sealable transparent cover (accessory)

CM-S range: Universal and multifunctional



- < Only 22.5 mm wide housing
- < Output contacts: 1 or 2 c/o (SPDT) contacts
- < One supply voltage range or supplied by measuring circuit
- < Setting and operation via front-face operating controls
- < Adjustment of threshold values and switching hysteresis via direct reading scale
- < Integrated and snap-fitted front-face marker
- < Snap-on housing: The relays can be placed on a DIN rail tool-free - just snap it on or remove it tool-free
- < Sealable transparent cover (accessory)

CM-E range: Economy



- < Only 22.5 mm wide housing
- < Output contacts: 1 c/o contact or 1 n/o contact
- < One supply voltage range
- < One monitoring function
- < Cost-efficient solution for OEM applications
- < Preset monitoring ranges

ABB's measuring and monitoring relays in a new housing

Benefits at a glance

Easy Connect Technology

New options:

Additionally to the existing well established screw connections a new innovative connection technology can be offered: Easy Connect Technology with push-in terminals.

Tool-free wiring:

The push-in terminals can be wired with rigid or fine stranded wires with wire end ferrules totally tool-free. The connection direction is exactly the same as the screw version.

Higher utility class:

The Easy Connect Technology provides excellent vibration resistance with gas tight push-in terminals – the right solution for harsh environment.

Extended features

Flammability:

The plastic housing material used meets the requirements for the highest flammability class. (UL94 V-0 rated)

Look and feel:

The new housing fits perfectly with ABB's control products offer.

Measuring and monitoring relays

Benefits and advantages

Combination screws for CM-E range ①

Easy tightening and release of the connection screws with pozidrive, pan- or crosshead screwdriver.

Safety ②

The „real distance“ is hidden.
The clearance and the creepage distances of our products exceed international standards and substantially increase the safety of our products.

Easy Connect Technology ③

Tool-free wiring and excellent vibration resistance. Push-in terminals provide connection of wires up to 2 x 0.5 - 1.5 mm² (2 x 20 -16 AWG), rigid or fine-strand with or without wire end ferrules. The extended type designators for products with push-in terminals are indicated by a P following the extended type designator e.g. CM-xxS.xxP.

Double-chamber cage connection terminals ④

Double-chamber cage connection terminals provide connection of wires up to 2 x 0,5-2.5 mm² (2 x 20-14 AWG) rigid or fine-strand, with or without wire end ferrules. Potential distribution does not require additional terminals. The extended type designators for products with double-chamber cage connection terminals are indicated by a S following the extended type designator e.g. CM-xxS.xxS.

LED's for status indication ⑤

All actual operational states are displayed by front-face LEDs, thus simplifying commissioning and troubleshooting.

Integrated marker label ⑥

Integrated marker labels allow the product to be marked quickly and simply. No additional marker labels are required.

Sealable transparent cover ⑦

Protection against unauthorized changes of time and threshold values. Available as an accessory.

Snap-On housing ⑧

Tool-free DIN rail installation and deinstallation of the monitoring relay.

