

Electronic timers
CT range

Power and productivity
for a better world™

ABB electronic timers
CT range





For many years, ABB's CT range electronic timers has been used in applications worldwide and has proven its excellent functionality in daily use even under the toughest conditions. Three ranges of electronic timers provide timing functions for all applications.

CT-D
The CT-D range with MDRC design (modular DIN rail components) in an enclosure with a width of only 17.5 mm fits into all domestic installation and distribution panels.

CT-E
The CT-E range offers an excellent price/performance ratio and is an ideal solution for serial applications.

CT-S
The highly sophisticated CT-S range in ABB's new S-range enclosure offers two different types of connection terminals and is ideally suited for universal use.

Accessories
The CT-S range offers the possibility of using accessories such as a remote potentiometer to adjust the time delay or a sealable transparent cover to protect against unauthorized changes in time and threshold values.

General news and benefits



LEDs for status indication

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

Direct reading scales

Direct setting of the time delay without any additional calculation allows accurate time delay adjustment.



Connection screws in M3 (pozidrive)

Easy tightening and release of the connection screws using a pozidrive, panhead or crosshead screwdriver.



Double-chamber cage connection terminals

Double-chamber cage connection terminals make it possible to connect wires up to 2 x 2.5 mm^2 (2 x 14 AWG), rigid or fine-strand, with or without ferrules. Potential distribution does not require additional terminals.

Time range preselection and fine adjustment

Direct assignment of the preselected time range to the fine adjustment potentiometer scale by multicolor scales.



Easy connect technology

Innovative Push-in connection terminals for tool-free installation. The connection is gas-proof and has the same direction as the double-chamber cage connection terminals.

The CT range includes 103 electronic timers and switching relays with 16 different functions. The electronic timers are divided into three ranges with their individual benefits. A lot of different connection terminals such as screw, chamber, double-chamber cage and push-in connection terminals are available. Furthermore, relay outputs and solid-state outputs are also available.

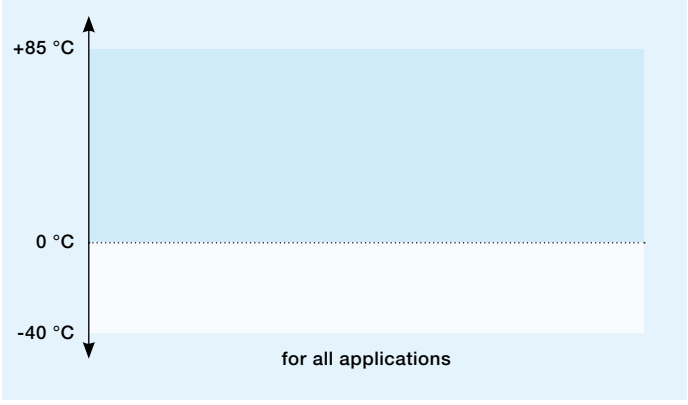
The high-end CT-S range of electronic timers in a new housing

NEW



The highly sophisticated CT-S range is ABB's most modern and universal time relay range. This program includes 24 single-function devices and 16 multifunction timers with up to 11 functions offering the highest flexibility in operation. The devices feature 7 or 10 time ranges that are adjustable from 0.05 seconds to 300 hours.

!NEW!
Extended temperature range from -40 °C to 85 °C



Characteristics of the CT-S range:

- Diversity:
  - 8 multifunction timers
  - 13 single-function timers
- Control supply voltages:
  - Multi range: 24 - 48 V DC, 24 - 240 V AC
  - Wide range: 24 - 240 V AC/DC
  - Single range: 380 - 440 V AC
- Devices with:
  - 1 or 2 c/o (SPDT) contacts
  - 2nd c/o (SPDT) contact can be selected as instantaneous contact
  - Remote potentiometer connection
  - Control input with volt-free (dry/floating) or voltage-related (wet/non-floating) triggering e.g. to start timing, pause timing

Approvals / marks:

UL 508, CAN/CSA C22.2 No.14
GL [1]
GOST
CB scheme [2]
CCC
CE
C-Tick

[1] Except CT-VBS.xx
[2] Pending for CT-ARS.xx



The CT-S range in a new housing:

The universal CT-S range offers all devices in a new housing, which provides two different connection possibilities: Double-chamber cage connection terminals or Push-in terminals. The functionality can be extended with different accessories such as a remote potentiometer.

Snap On Housing

Tool free mounting of housing on DIN rail

Time range preselection

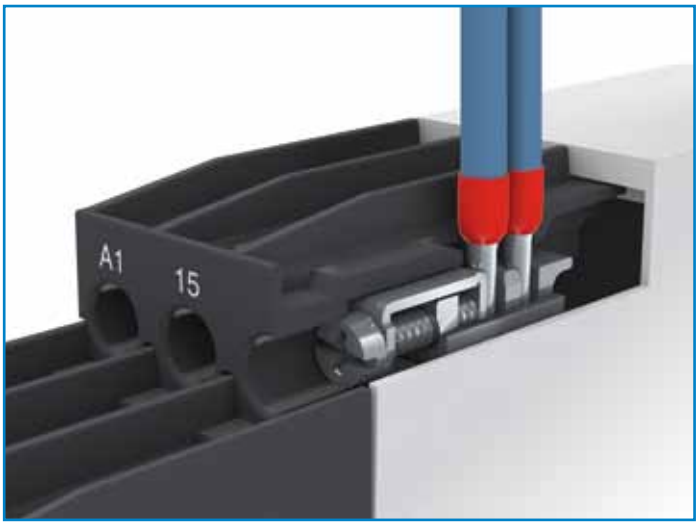
Direct assignment of the preselected time range to the fine adjustment potentiometer scale by multicolor scales.

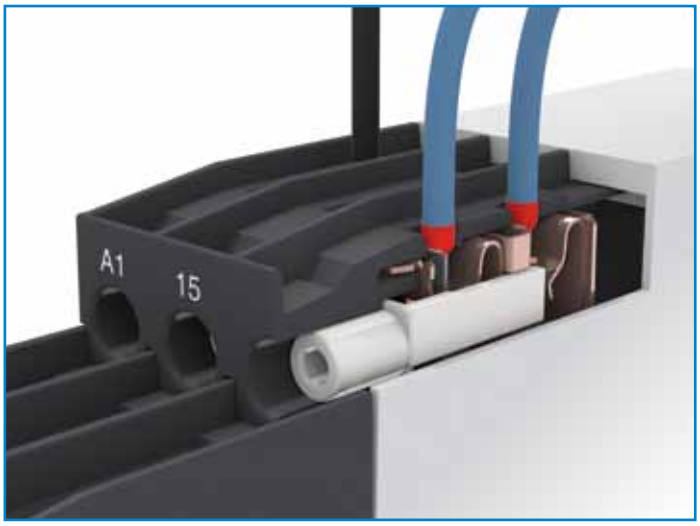
Indication of all operational states

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

Integrated marker labels

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





Double-chamber cage connection terminals

Double-chamber cage connection terminals provide connection of wires up to 2 x 2.5 mm^2 (2 x 14 AWG), rigid or fine-strand, with or without ferrules. Potential distribution does not require additional terminals.

Easy Connect Technology

Innovative Push-in connection terminals for tool-free installation. The connection is gas-proof and has the same connection direction as the double-chamber cage connection terminals

Accessories for the CT-S range

To extend the functionalities of the CT-S range you can use one of the following accessories:

Remote potentiometer connection

The CT-S range offers the possibility of connecting a remote potentiometer for the fine adjustment of the time delay. When an external potentiometer is connected, the internal front-face potentiometer is disabled.

Sealable transparent cover

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



The timing functions in detail

The symbols are printed on all multifunction electronic timers to make adjustment as easy as possible. The following table explains which symbol represents which function.

Symbol	Function
⊠	ON delay
■	OFF delay
⊠■	ON and OFF delay
1⎍⊠	Impulse ON
1⎍■	Impulse OFF
1⎍⊠■	Impulse ON and OFF
⎍⊠	Flasher starting with ON
⎍■	Flasher starting with OFF
⎍⊠■	Flasher starting with ON or OFF
⊠■⎍	Pulse generator starting with ON or OFF
⎍⎍	Pulse former
△	Star-delta change-over
△1⎍	Star-delta change-over with impulse
△⊠	Star-delta change-over twice ON-delayed
▭	Switching relay
▭	ON/OFF function
⊠+	Accumulative ON delay
⊠1⎍	Fixed impulse with adjustable time delay
■1⎍	Adjustable impulse with fixed time delay

For further information please have a look at:

Catalogue (2CDC 110 004 C0207)

Panorama (2CDC 110 065 C0201)