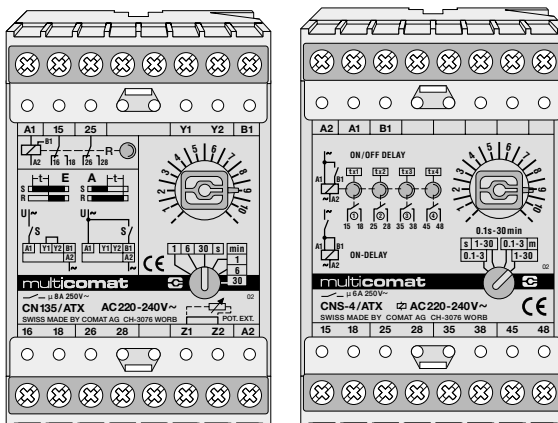
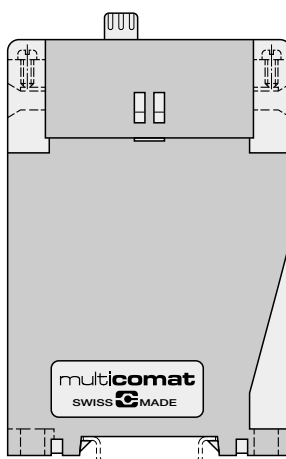


## Programmable time delay relays CN



- Industrial time delay relays CN 135 with 2 output contacts
- Electronic program sequence relays CNS-4 with 4 individually delayed N/O-contacts
- Programmable timing modes
- Programmable time ranges from 0,1 s – 30 min
- Design 50 x 75 mm (mounting standard grid as DIN 43 660)
- Case for snap fastening on DIN-rail TS 35 (DIN 46 277) or screw fixture
- Hook-up wiring by means of two quick-release screw block terminals or faston connectors acc. DIN 46 247
- Possibility of interchanging the device without disconnecting the wiring
- Connection for external potentiometer (CN 135)



M 1:2

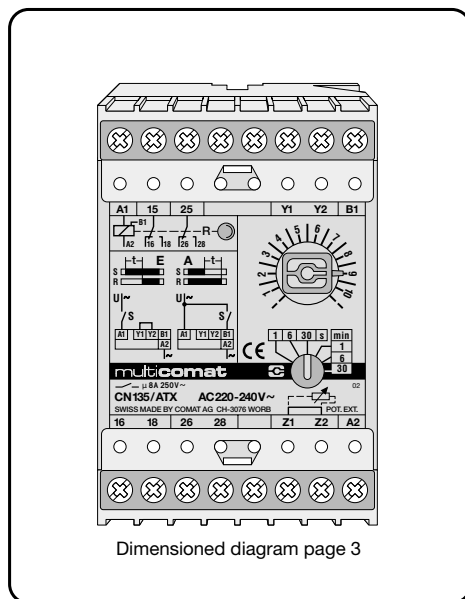


| Type  | Time range     | Partial range |             |            |
|-------|----------------|---------------|-------------|------------|
| CN135 | 0,1 s – 30 min | 0,1 – 1 s     | 0,6 – 6 s   | 3 – 30 s   |
|       |                | 0,1 – 1 min   | 0,6 – 6 min | 3 – 30 min |
|       |                |               |             |            |

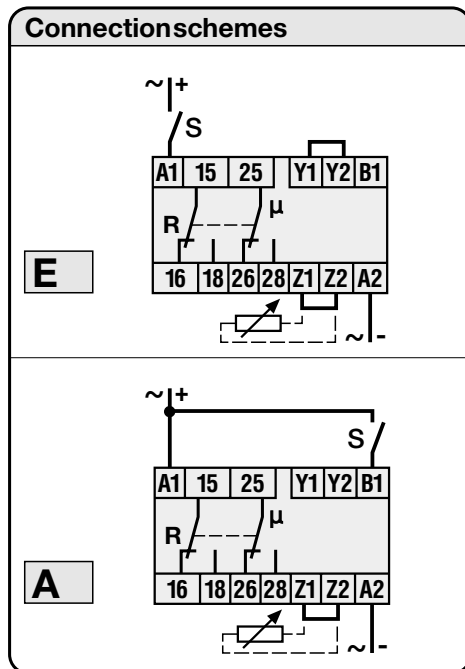
The partial ranges are programmable at the range switch

| Voltage, current consumption, type |               |       |                    |       |            |
|------------------------------------|---------------|-------|--------------------|-------|------------|
| Symbol                             | AC 50/60 Hz   |       | AC40–60 Hz oder DC |       | Type       |
|                                    | U min – U max | I max | U min – U max      | I max |            |
| AC220–240V~                        | -15% – +10%   | 15 mA |                    |       | CN 135/ATX |
| AC110–120V~                        | -15% – +10%   | 20 mA |                    |       | CN 135/ANP |
| UC24–48V~                          |               |       | -15% – +25%        | 45 mA | CN135/UFK  |

**Example of order:** 1 time delay relay CN 135/ATX



| Timing modes     | Diagram | Description                         |
|------------------|---------|-------------------------------------|
| <b>On delay</b>  |         | S ⇒ R on with delay<br>SOFF ⇒ R off |
| <b>Off delay</b> |         | S ⇒ R on<br>SOFF ⇒ R off with delay |
|                  |         |                                     |



| Technical Data                |                                | General                             |
|-------------------------------|--------------------------------|-------------------------------------|
| Repeat accuracy <sup>1)</sup> |                                | ±0,2% oder 20 ms                    |
| Voltage stability             |                                | 1%/V // <1,5%                       |
| Temperature stability         |                                | 0,15%/°C ΔTamb                      |
| Time range tolerance max.     |                                | t min. -25% +0% / t max. -0% +25%   |
| Remote potentiometer          |                                | 1 M Ω, lin.                         |
| Remote circuit capacity max.  |                                | 1000 pF/Δt 1%                       |
| Reset time during time expiry | E: 50 ms; A: 25 ms             |                                     |
| Reset time after time expiry  | E: 20 ms; A: 10 ms             |                                     |
| Triggering time               | AC: ≥ 40 ms; DC: ≥ 25 ms       |                                     |
| Triggering delay time         | 5 ms/DC, 15 ms/AC              |                                     |
| Load of triggering contact S  | E: see voltage table; A: 0,7 W |                                     |
| Operating temperature range   |                                | -25... + 60°C                       |
| Storage temperature range     |                                | -25... + 85°C                       |
| Humidity                      |                                | 10...90% n. kond.                   |
| Transient voltage protection  |                                | 3 kV, 50 μs / 2,5W                  |
| Specifications                |                                | SEV, VDE 0435/0110 Gr. C, CE        |
| Protection/case material      |                                | IP 40/Noryl SE 1 to UL 94 V-1       |
| Weight incl. packing          |                                | appr. 240 g, with transformer 330 g |

<sup>1)</sup> referred to the set time                      Daten bei Tamb=25°C und Vnom

| Technical Data         |  | output circuit               |
|------------------------|--|------------------------------|
| Switching current max. |  | 8A                           |
| Switching voltage max. |  | 250V~                        |
| Breaking capacity      |  | AC: 1500VA; DC: ...250W      |
| Mechanical life        |  | 3x10 <sup>7</sup> operations |
| Contact material       |  | Ag Ni                        |

Valid for ohmic load or for inductive loading with spark arrest.

**Accessories**

**Remote potentiometer** (order no. SP-01/1M)

Ready-to-fit adjustable potentiometer with connection terminals. Front protection IP65

