

Electronic multifunction counters without preselection

→ "DUO" multifunction counter - LED 24 x 48 - CTR24L

- High brightness display: 6-digit LED, height 8 mm
- Maximum input frequency 50 kHz (in tot.tot function)
- Programmable dual functions: Counter + Tachometer/
Counter + Counter/Counter + Chronometer/
Chronometer + Chronometer
- Reset on panel or external with inhibition option
- Supply: 10 → 30 V $\overline{\text{DC}}$
- Easy to program
- Scaling factor (Counter - Tachometer)
- Decimal point (Counter - Tachometer - Chronometer)
- Timing range 0.001 s → 999.999 hrs (Chronometer)
- Impulses or time measured in hrs/min/sec and in real time (Chronometer)
- Accessories for 50 x 25 mm cut-out



Part numbers

| Type | Functions | Code |
|---------------|---|----------|
| CTR24L - 2515 | DUO counter: Counter + Tachometer/Counter + Counter/Counter + Chronometer/Chronometer + Chronometer | 87623574 |

Accessories

| Description | Code |
|--|----------|
| Adaptor for 50 x 25 mm cut-out - Fixed with screws | 26546843 |
| Adaptor for 50 x 25 mm cut-out - Fixed with clips | 26546844 |
| DIN rail adaptor | 26546840 |
| Clip-fixing kit (supplied with the product) | 26546848 |

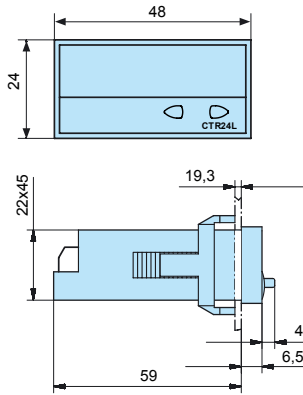
General characteristics

| Environmental characteristics | |
|---|--|
| Consumption | 10 → 30 V $\overline{\text{DC}}$ max 55 mA with protection against polarity reversal |
| Connection by 5 screw terminals at rear of casing | ✓ |
| Connection capacity | 1.5 mm ² |
| Fixed using bracket | ✓ |
| Degree of protection front face | IP 65 |
| Data memory | EEPROM |
| Temperature limits use (°C) | -20 → +55 |
| Temperature limits stored (°C) | -25 → +70 |
| Breakdown voltage | Selon EN 61010-1: 2000 V / 50 Hz / 1 min |
| Conformity to standards | EN 61000-6-2 - EN 55011 class B |
| Altitude | 2000 m |
| Certifications | UL - cULus - CE |
| Weight (g) | 50 |
| Operating characteristics | |
| Functions | Counter + Tachometer/Counter + Counter/Counter + Chronometer/Chronometer + Chronometer |
| Display | 6-digit LED |
| Height digits (mm) | 8 |
| Input characteristics | |
| Inputs | 2 counter inputs, 1 reset input |
| Low level | 0 → 0.2 x U _b V $\overline{\text{DC}}$ |
| High level | 0.6 x U _b → 30 V $\overline{\text{DC}}$ |
| Cyclical ratio | Any (maximum frequency given for a cyclical ratio = 1/1) Schmitt trigger input |
| Polarity | NPN or PNP for all inputs (programming) |
| Minimum impulse duration for reset | 5 ms |
| Frequency of filtered input | Filter active: 30 Hz Filter disabled: maximum frequency (programming) |
| Input impedance (k Ω) | Appr. 5 |
| Impulse counter | |
| Display details | 0 → 999 999 |
| Elimination of non-significant zeros | ✓ |
| Counting input modes | INPA input counting |
| Input INPA | Dynamic (uses the same INPA input as the counter) |

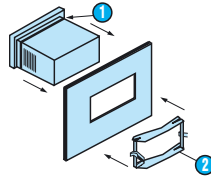
| | |
|--------------------------------------|---|
| Reset input (terminal 5) | Dynamic Reset input connected in parallel with the red SET/RESET button Sets the counter to the defined preset value |
| Reset to zero - Panel | If not locked during programming |
| Remise à zéro - Externe (borne 5) | If not locked during programming |
| Scale factor | 1 → 99.9999 |
| Scaling factor | 1 → 99.9999 |
| Decimal point | 0 0.0 0.00 0.000 |
| Maximum counting frequency | 50 kHz |
| Tachometer | |
| Display details | 0 → 999 999 |
| Elimination of non-significant zeros | ✓ |
| Conversion time | 1/s or 1/min |
| Input INPA | Dynamic (uses the same INPA input as the counter) |
| Accuracy | < 38 Hz: measurement of period duration > 38 Hz: measurement of duration time base = 26.3 ms |
| Measurement principle | < 0.1% |
| Scale factor | 1 → 99.9999 |
| Scaling factor | 1 → 99.9999 |
| Decimal point | 0 0.0 0.00 0.000 |
| Maximum counting frequency | 35 kHz |
| Chronometer | |
| Display details | 0.001 s → 999 999 h |
| Elimination of non-significant zeros | ✓ |
| Functions | In tot.tr function: GatE.Lo → Time measurement if INPB is not active GatE.hi → Time measurement if INPB is active Inb.Inb → Time measurement on/off via the INPB edge In tr.tr function: IGatE.Lo → Time measurement if INPB is not active GatE.hi → Time measurement if INPB is active Inb.Inb → Time measurement on/off via the INPB edge InA.Inb → Measurement on via the INPA edge, measurement off via the INPB edge |
| Input INPA | Start/Stop or Gate (depends on the input mode chosen) |
| Input INPB | Start/Stop or Gate (depends on the input mode chosen) |
| Reset input (terminal 5) | Dynamic Reset input connected in parallel with the red SET/RESET button Sets the counter to the defined preset value |
| Remise à zéro - Externe (borne 5) | If not locked during programming |
| Reset to zero - Panel | If not locked during programming |
| Accuracy | < 50 |
| Decimal point | 0 0.0 0.00 0.000 |
| Time ranges | 0.001 s → 999 999 s 0.001 min → 99 999 min 0.001 h → 999 999 h 00 h 00 min 01 s → 99 h 59 min 59 s |
| Maximum counting frequency | 40 kHz |

Dimensions (mm)

CTR24L - 2515

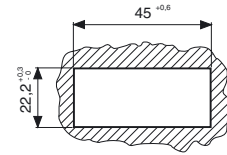


Fixing strip with clip-on yoke

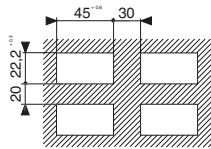


- ① Seal
- ② Fixing yoke

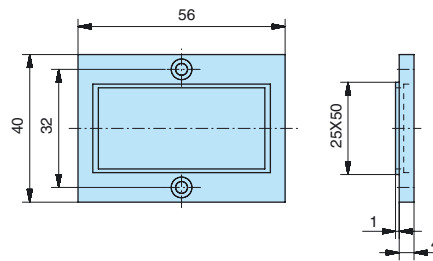
Panel cut-out



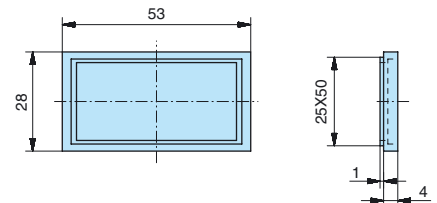
4 appliances



26546843 - Adaptor for 50 x 25 mm cut-out - Fixed with screws

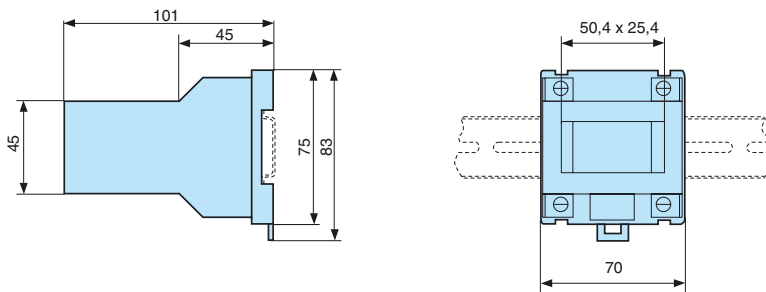


26546844 - Adaptor for 50 x 25 mm cut-out - Fixed with clips

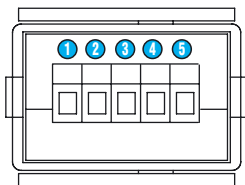


Accessory supplied with the counter

26546840 - DIN rail adaptor



Connections



- ① Supply: 10 → 30 V_{DC}
- ② Supply: GND (0 V_{DC})
- ③ INPA
- ④ INPB
- ⑤ SET/RESET

