

Electronic multifunction counters without preselection

→ Multifunction counter combining a totalizer and tachometer - LED 24 x 48 - CTR24L

- High brightness display: 6-digit LED, height 8 mm
- Maximum input frequency 30 k Hz
- Combined function: Position indicator counter and Tachometer
- Reset on panel
- Supply: 10 → 30 V $\overline{\text{DC}}$
- Easy to program
- Scaling factor (Counter - Tachometer)
- Decimal point (Counter - Tachometer)
- Accessories for 50 x 25 mm cut-out



Part numbers

Type	Functions	Code
CTR24L - 2513	Combined: Counter and Tachometer	87623572

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

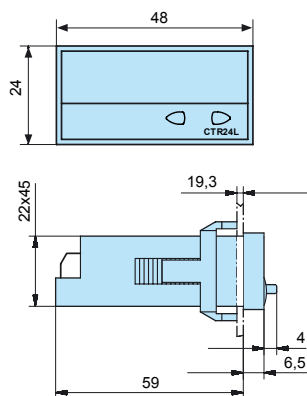
General characteristics

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	✓
Terminal 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 (pending) - CE
Weight (g)	50
Operating characteristics	
Functions	Impulse counter and Tachometer
Display	6-digit LED
Height digits (mm)	8
Input characteristics	
Inputs	2 counter inputs, 1 tachometer input, 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	- 19 999 → 999 999
Elimination of non-significant zeros	✓
Counting input modes	Cnt.Dir → Counter input INPA and counter direction input INPB Up.dn → INPA INPB differential counting Up.up → Sum of INPA + INPB QuAd → Phase discriminator QuAd2 → Phase discriminator with doubling of impulses QuAd4 → Phase discriminator with quadrupling of impulses
Inputs INPA / INPB	Dynamic
Reset to zero - Panel	If not locked during programming

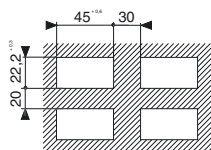
Scale factor	1 → 99.9999
Scaling factor	1 → 99.9999
Decimal point	0 0.0 0.00 0.000
Maximum counting frequency	Combined Counter + Tachometer functions: CntDir → 30 kHz UpDown → 10 kHz UpUp → 10 kHz Quad1 → 15 kHz Quad2 → 15 kHz Quad4 → 10 kHz
Tachometer	
Display details	0 → 999 999
Elimination of non-significant zeros	✓
Conversion time	1/s or 1/min
Input INPC	Dynamic
Accuracy	< 0.1%
Measurement principle	< 38 Hz: measurement of period duration > 38 Hz: measurement with duration time base = 26.3 ms
Scale factor	1 → 99.9999
Scaling factor	1 → 99.9999
Decimal point	0 0.0 0.00 0.000
Maximum counting frequency	30 kHz

Dimensions (mm)

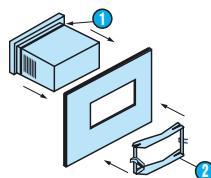
CTR24L - 2513



4 appliances

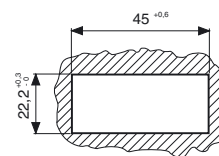


Fixing strip with clip-on yoke

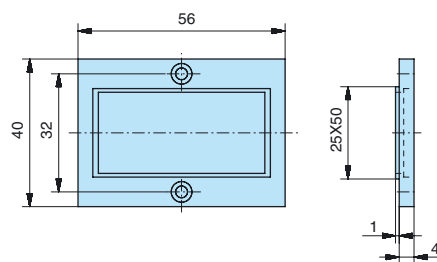


- ① Seal
- ② Fixing yoke

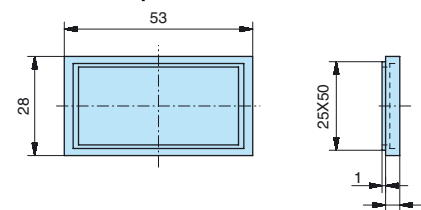
Panel cut-out



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

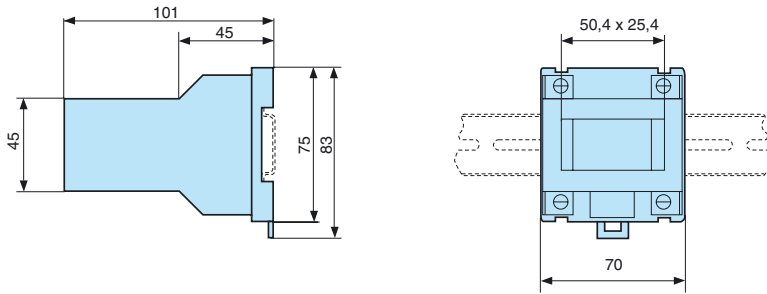


26546844 - Adaptor for 50 x 25 mm cut-out - Fixed with clips

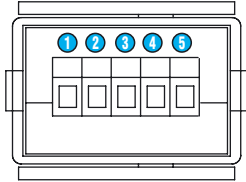


Accessory supplied with the counter

26546840 - DIN rail adaptor



Connections



- ① Supply: 10 → 30 V $\overline{\text{---}}$
- ② Supply: GND (0 V $\overline{\text{---}}$)
- ③ INPA (Counter)
- ④ INPB (Counter)
- ⑤ INPC (Tachometer)

Programming diagram

