

24 x 48 Multifunction CTR24L - 2511 Part number 87623570



- High brightness display : 6-digit LED, height 8 mm
- Maximum input frequency 50 k Hz
- Programmable multifunction : Counter/Tachometer/Chronometer
- Reset on panel or external with inhibition option
- Supply : 10 →30 VDC
- Easy to program
- Scaling factor (Counter - Tachometer)
- Decimal point (Counter - Tachometer)
- 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 |
|------------------------|----------------------------------|
| 87623570 CTR24L - 2511 | Counter, Tachometer, Chronometer |

Specifications

Physical details and protection

| | |
|---|--|
| Consumption | 10 →30 VDC 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 |
| Dielectric strength | According to 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, Tachometer, Chronometer |
| Display | 6-digit LED |
| Height digits (mm) | 8 |

Inputs specifications

| | |
|------------------------------------|---|
| Inputs | 2 counter inputs, 1 reset input |
| High level | 0 →0,2 x Ub VDC |
| Low level | 0,6 x Ub →30 VDC |
| 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 (kΩ) | 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 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 | CntDir →50 k Hz UpDown →25 k Hz UpUp →25 k Hz Quad1 →25 k Hz Quad2 →25 k Hz Quad4 →15 k Hz |
|----------------------------|---|

Tachometer

| | |
|--------------------------------------|---|
| Display details | 0 →999 999 |
| Elimination of non-significant zeros | ■ |
| Conversion time | 1/s ou 1/min |
| Input INPA | 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 | 50 k Hz |

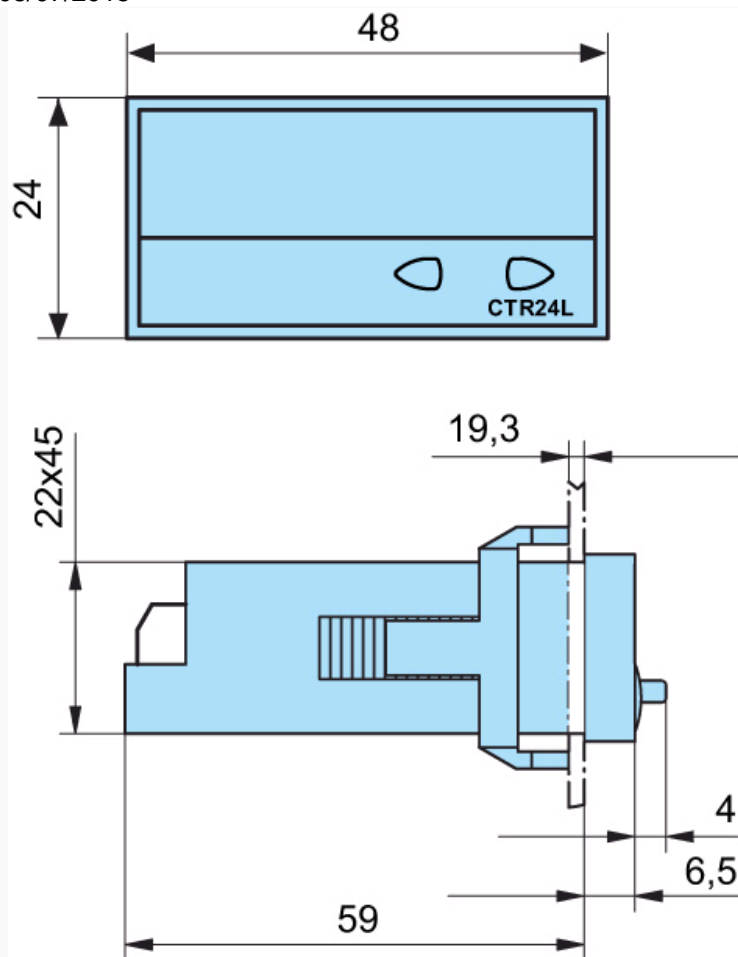
Chronometer

| | |
|--------------------------------------|--|
| Display details | 0,001 s →999 999 h |
| Elimination of non-significant zeros | ■ |
| Functions | 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 InA.Inb →Measurement on via the INPA edge, measurement off via the INPB edge |
| Input INPA | Start |
| Input INPB | Start/Stop or Gate (depends on the input mode chosen) |
| Remise à zéro - Externe (borne 5) | If not locked during programming |
| 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 |
| 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 |

Accessories

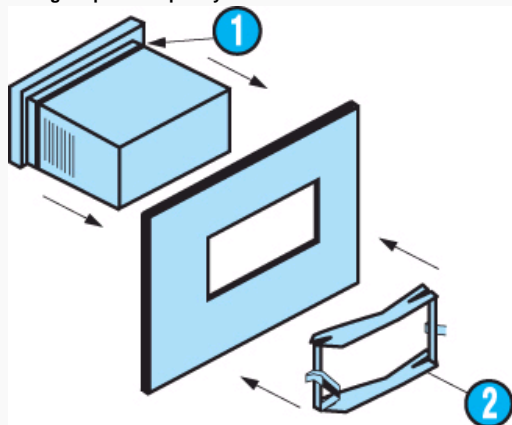
| Description | Code |
|--|----------|
| Adaptor for 50 x 25 mm cut-out - Fixed with screws | 26546843 |
| Adaptor for 50 x 25 mm cut-out - Fixed with clips | 26546844 |
| DIN rail adaptor | 26546840 |
| Clip-fixing kit (supplied with the product) | 26546848 |

Dimensions (mm)**CTR24L - 2511**



Dimensions (mm)

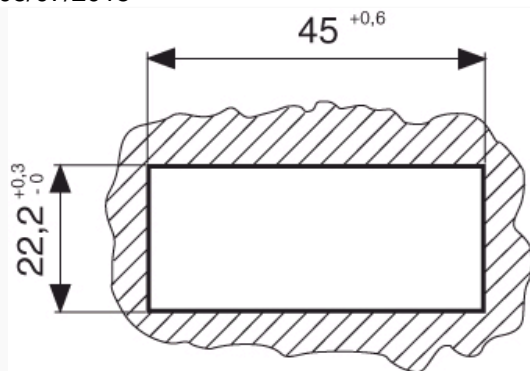
Fixing strip with clip-on yoke



| N° | Legend |
|----|-------------|
| 1 | Seal |
| 2 | Fixing yoke |

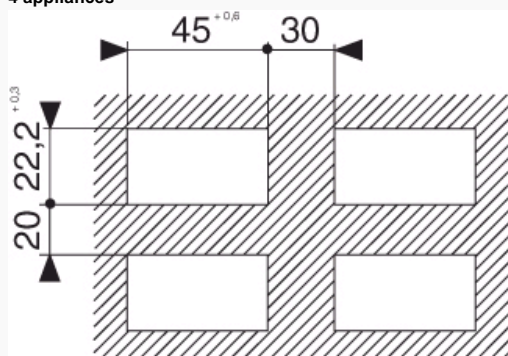
Dimensions (mm)

Panel cut-out



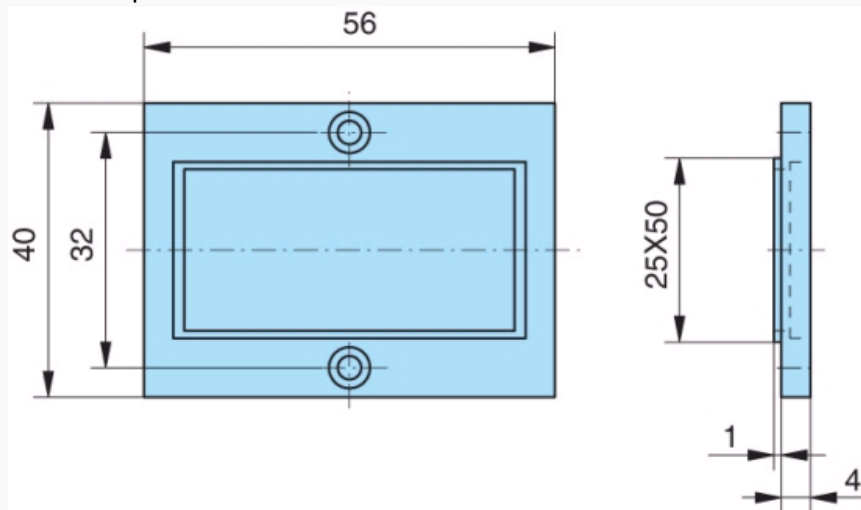
Dimensions (mm)

4 appliances



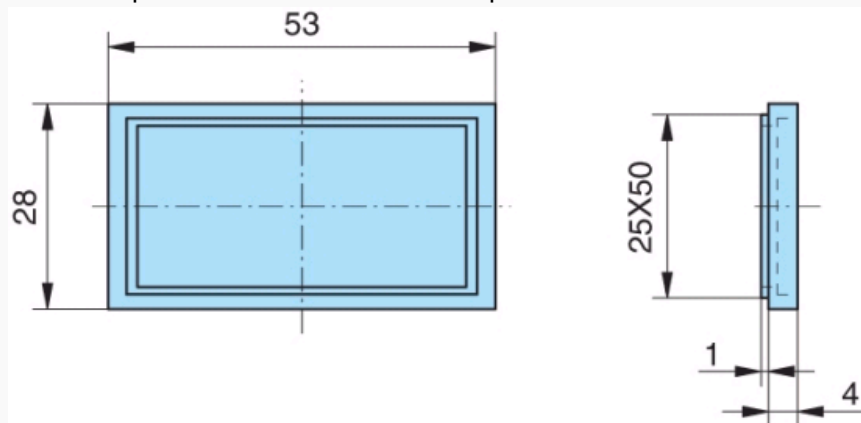
Dimensions (mm)

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



Dimensions (mm)

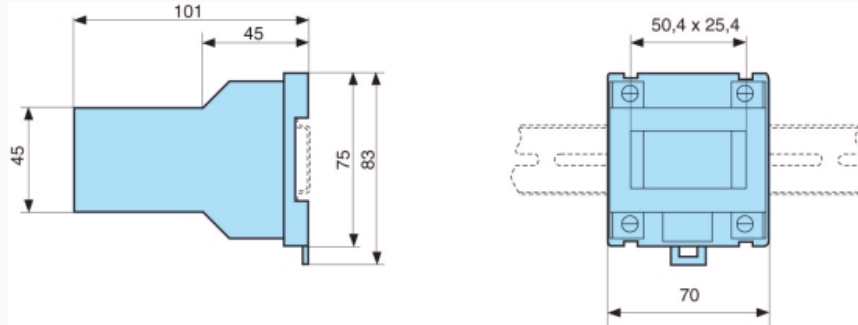
26546844 - Adaptor for 50 x 25 mm cut-out - Fixed with clips



Accessory supplied with the counter

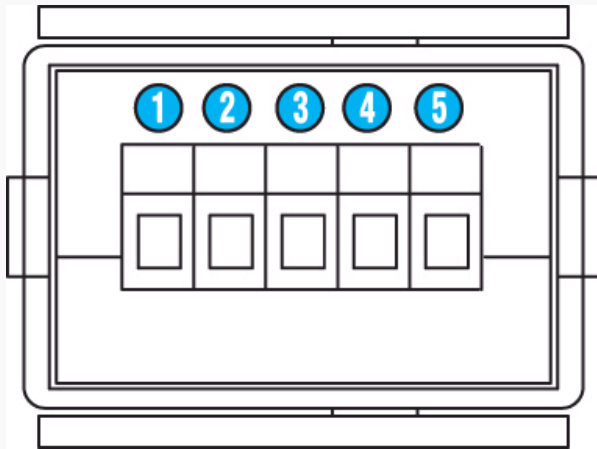
Dimensions (mm)

26546840 - DIN rail adaptor



Accessory supplied with the counter

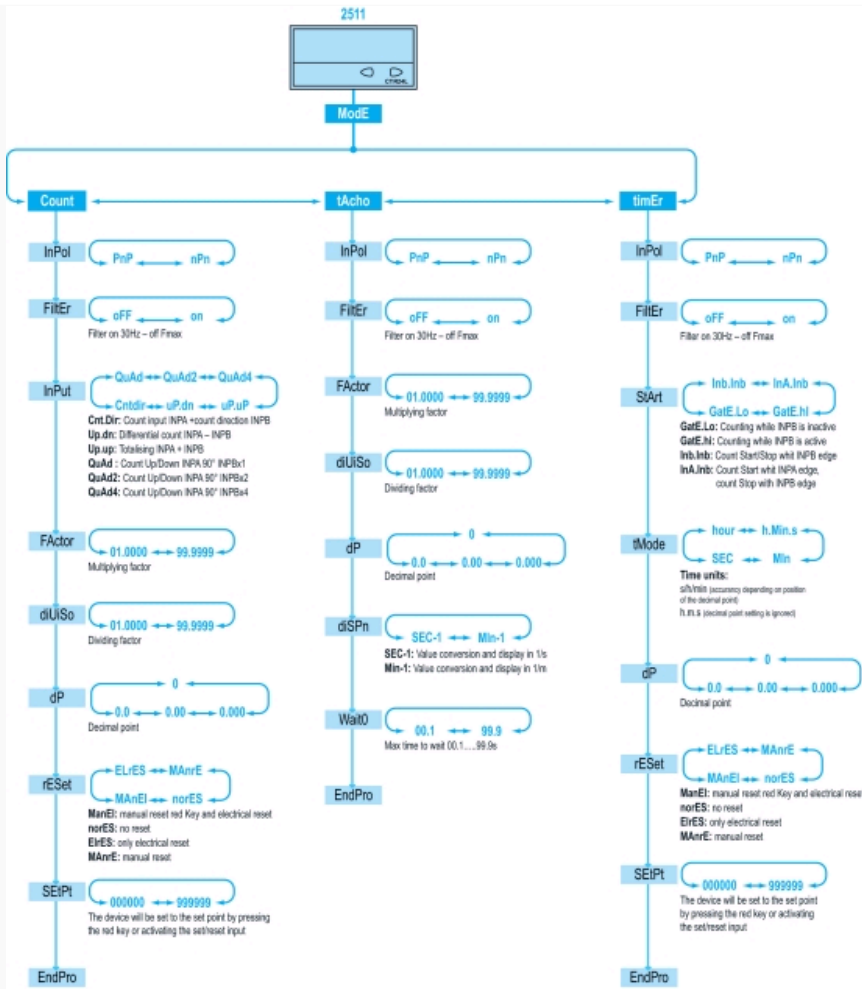
Connections



| N° | Legend |
|----|-----------------------------------|
| 1 | Supply : 10 →30 VDC |
| 2 | Supply : GND (0 VDC) |
| 3 | INPA |
| 4 | INPB (NC in tachometer mode) |
| 5 | SET/RESET (NC in tachometer mode) |

Applications

Programming diagram



Count frequency:

| | | |
|-----------------|----------|------|
| DC power supply | 24V | 12V |
| Input level | Standard | |
| Typ. low | 2.5V | 2.0V |
| Typ. High | 22.0V | 10V |
| Fmax* | KHz | KHz |
| CntDir | 50 | 20 |
| UpDown | 25 | 15 |
| Up.up | 25 | 15 |
| QuaAd1 | 25 | 15 |
| QuaAd2 | 25 | 15 |
| QuaAd4 | 15 | 15 |

Count frequency:

| | | |
|-----------------|----------|------|
| DC power supply | 24V | 12V |
| Input level | Standard | |
| Typ. low | 2.5V | 2.0V |
| Typ. High | 22.0V | 10V |
| Fmax* | KHz | KHz |
| Tacho | 50 | 20 |

Counting ranges:

| | |
|---------|---------------------------|
| Seconds | 0.001s...999.999s |
| Minutes | 0.001min...999.999min |
| Hours | 0.001h...999.999h |
| h.min.s | 00h00min01s...99h59min59s |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.