> Electronic Counters Multifunction Counter CTR24L

- > 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 \rightarrow 30 V....
- > Easy to program
- > Scaling factor (Counter Tachometer)
- > Decimal point (Counter Tachometer)
- > Accessories for 50 x 25 mm cut-out
- > Highly resistant to shocks and impacts
- > Excellent visibility due to the large digit size

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Conner Conner
CTP24
CTR24L

 Model
 Type
 Functions
 Part Number

 CTR24L
 2511
 Counter, Tachometer, Chronometer
 87623570

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

General characteristics		
Physical details and protection		
Consumption	$10 \rightarrow 30 \; \text{V}_{}$ 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	According to EN 610110-1: 2000 V/50 Hz/1 min.	
Conformity to standards	EN 61000-6-2 - EN 55011 class B	
Altitude (m)	2000	
Certifications	UL - cULus - CE	
Weight (g)	50	

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Description:

Crouzet Impulse Counters, accurate and durable solutions for pulse measurement needs

Crouzet's electronic impulse counters are reliable devices designed for measuring and recording electrical impulses in industrial applications. Crouzet's impulse counters use a combination of mechanical and electrical components to precisely count electrical pulses, offering a reliable solution for various industrial control and monitoring tasks.

For more information about: please visit www.crouzet.com

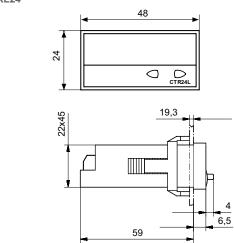


Operating characteristics		
Function	Impulse counter, Tachometer, Chronometer	
Display	6-digit LED	
Height digits (mm)	8	
Input specifications		
Inputs	2 counter inputs, 1 reset input	
Low level	$0 \rightarrow 0.2 \text{ x Ub VDC}$	
High level	$0.6 \times \text{Ub} \rightarrow 30 \text{ V}_{}$	
Cyclical 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 (ms)	5	
Frequency of filtered input (Hz)	Filter active: 30 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	$1 \to 99.9999$	
Decimal point	0 0.0 0.00 0.000	
Maximum counting frequency	CntDir \rightarrow 50 k Hz UpDown \rightarrow 25 k Hz UpUp \rightarrow 25 k Hz Quad1 \rightarrow 25 k Hz Quad2 \rightarrow 25 k Hz Quad4 \rightarrow 15 k Hz	
Tachometer		
Display details	$0 ightarrow 999 \ 999$	
Elimination of non-significant zeros	0	
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 ightarrow 99.9999	
Scaling factor	$1 \rightarrow 99.9999$	
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 \rightarrow Time measurement if INPB is not active	
	GatE.hi →Time measurement if INPB is active	
	Inb.Inb \rightarrow Time measurement on/off via the INPB edge	
	InA.Inb $ ightarrow$ 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	
	$0.001 \text{ min} \rightarrow 99 999 \text{ min}$	
	$0.001 \text{ h} \rightarrow 999 \text{ 999 h}$	
	00 h 00 min 01 s \rightarrow 99 h 59 min 59 s	

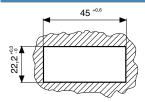
Dimensions (mm) Panel Mounted

CTRL24

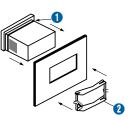


Seal
 Fixing yoke

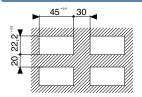
Panel Cut-out



Fixing strip with clip-on yoke

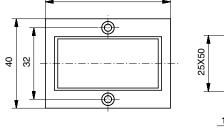


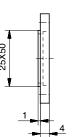
4 appliances



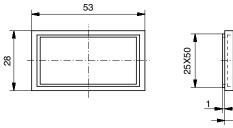
Accessories





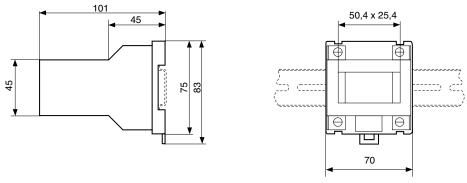


26546844 - Adaptor for 50 x 25 mm cut-out - Fixed with clips



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26546840 - DIN rail adaptor

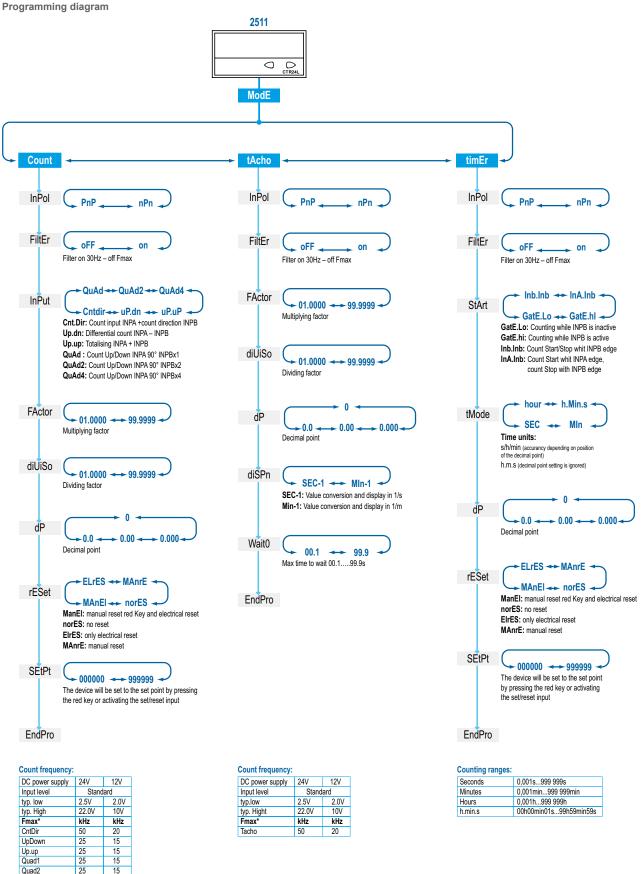


Accessory supplied with the counter

Connections 2513 00000 1 2 3 4 5 Supply: $10 \rightarrow 30 V$ Supply: GND (0 V---) INPA INPB (NC in tachometer mode)

SET/RESET (NC in tachometer mode)

Applications



Warning:

Quad4

15

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