Electronic Counters Impulse Counter and Tachometer CTR24L

- > High brightness display: 6-digit LED, height 8 mm
- > Maximum input frequency 30 k Hz
- > Combined function: Impulse counter and Tachometer
- > Reset on panel or external with inhibition option
-) Supply: 10 \rightarrow 30 V....
- > Easy to program
- > Scaling factor
- > Decimal point
- > Accessories for 50 x 25 mm cut-out
- > Highly resistant to shocks and impacts
- > Excellent visibility due to the large digit size



CTR24L

Product selection				
Model	Туре	Functions	Part Number	
CTR24L	2513	Combined: Counter and Tachometer	87623572	

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	$10 \rightarrow 30 \ V^{}$ max 55 mA with protection against polarity reversal			
Connection by 5 screw terminals at rear of casing	•			
Connection capacity	1.5 mm²			
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			

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

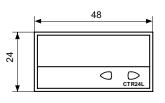


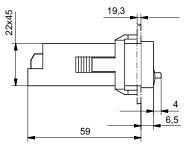
Operating characteristics		
Function	Impulse counter and Tachometer	
Display	6-digit LED	
Height digits (mm)	8	
Input specifications		
Inputs	2 counter inputs, 1 tachometer input, 1 reset input	
Low level	$0 \rightarrow 0.2 \text{ x Ub VDC}$	
High level	$0.6 \times Ub \rightarrow 30 \text{ V}$	
Cyclical 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 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 $ ightarrow$ 30 k Hz UpDown $ ightarrow$ 10 k Hz UpUp $ ightarrow$ 10 k Hz Quad1 $ ightarrow$ 15 k Hz Quad2 $ ightarrow$ 15 k Hz Quad4 $ ightarrow$ 10 k Hz	
Tachometer		
Display details	$0 \to 999 \ 999$	
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	

Dimensions (mm)

Panel Mounted

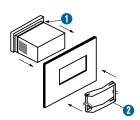
CTRL24



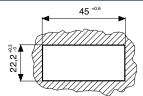


Seal
 Fixing yoke

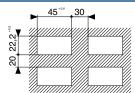
Fixing strip with clip-on yoke



Panel Cut-out



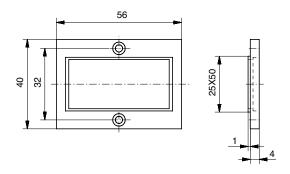
4 appliances

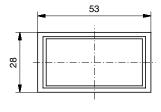


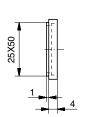
Accessories

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

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

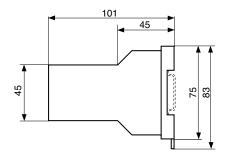


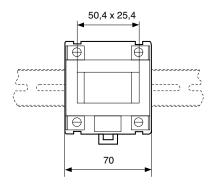




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26546840 - DIN rail adaptor

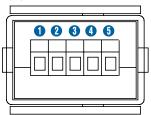




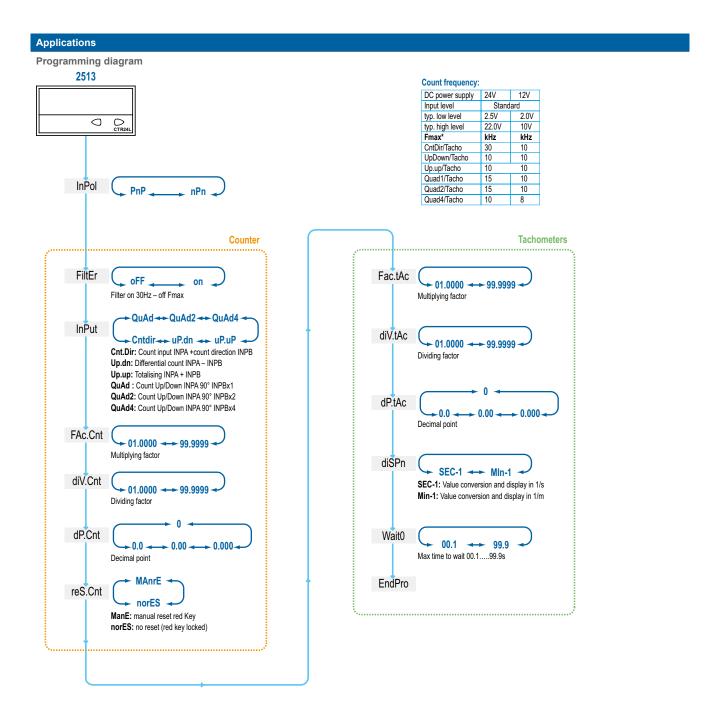
Accessory supplied with the counter

Connections

2513



- 1 Supply: 10 →30 V....
- 2 Supply: GND (0 V---)
- 3 INPA (Counter)
- 4 INPB (Counter)
- INPC (Tachometer)



SELECTION OF THE DISPLAYED VALUE

