

› Electronic Counters

Multifunction Counter

CTR48E

- › Backlit LCD display (green)
- › Maximum input frequency 5 k Hz
- › Simple parameter setting, configuration using text menus
- › Easy modification of presets
- › Reset on panel or external with inhibition option
- › Option of locking the keypad, completely or partially (preset, programming)
- › IP 65 sealed panel
- › Highly resistant to shocks and impacts
- › Excellent visibility due to the large digit size (6 digits, height 9 mm)



CTR48E

Product selection						
Model	Type	Functions	Preset	Voltages	Output	Part Number
CTR48E	Green backlit LCD display	Counter, Preselection chronometer	1	10 → 30 V $\overline{\text{---}}$	3 A changeover relay	87629111

Accessories	
Description	Part Number
Adaptor for 72 x 72 mm cut-out	26546842
Adaptor for 55 x 55 mm cut-out	26546846
DIN rail adaptor	26546841

General characteristics	
Physical details and protection	
Supply	10 → 30 V $\overline{\text{---}}$
Relative humidity at 40 ° (no condensation) according to EN 60068-2-30	93%
Altitude	Up to 2 000 m
Certifications	CE
Vibration resistance in 3 axes	10-55 Hz/1 min/XYZ EN 60068-2-6: 30 min. in each direction
Connection by screw terminals	Debrochable
Protection	Front side: IP65 / Connections: IP20
Front panel watertight seal	•
Temperature limits use (°C)	-10 → +50
Temperature limits stored (°C)	-25 → +75
Weight (g)	150

You have a project? Contact us on www.crouzet.com

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.

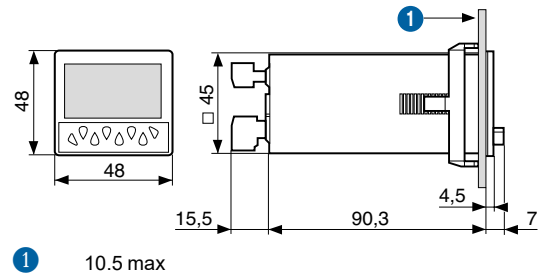
For more information about: please visit www.crouzet.com

Specifications	
Reset to zero or to preset	On panel: if not locked during programming Electrical: automatic, voltage or solid state (NPN or PNP depending on programming)
Minimum pulse time	Impulse counter: < 15 ms Chronometer: 500 µs
Option to protect against reset from front panel	•
Scale factor (each input pulse is multiplied by this figure)	00.0001 → 99.9999
Decimal point selectable for ease of reading	0 0.0 0.00 0.000 0.0000 0.00000
Programming and current value backed up via EEPROM memory	• Service life 10 years
Operating characteristics	
Functions	Preselection counter, Chronometer
Number of presets	1
Display	LCD with green backlighting
Height digits (mm)	9
Display details	999 999 → 999 999
Input specifications	
Inputs	2 counter inputs 1 reset input, 1 locking input
Input modes	Dir: Directional AS: up/dn PP: phase
Input type	Voltage or solid state
High level	3.5 → 30 V $\overline{\text{---}}$
Low level	0 → 2 V $\overline{\text{---}}$
Relay output characteristics	
Changeover relay	•
NO contact	No
Maximum current (A)	3
Minimum current (mA)	30
Maximum voltage	30 V $\overline{\text{---}}$ / 250 V $\sim$
Min. voltage	5 V $\sim$
Response time (ms)	< 10
Mechanical life (operations)	20 x 10 ⁶
Number of operations	5 x 10 ⁴
Output modes: maintained or pulsed	0.01 → 99.99 s

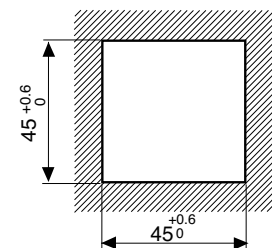
Dimensions (mm)

Panel Mounted

CTR48E

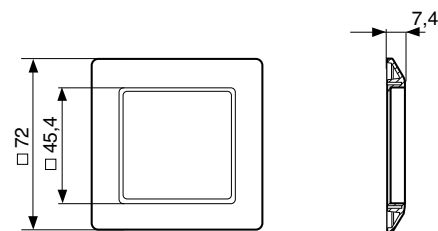


Panel Cut-out

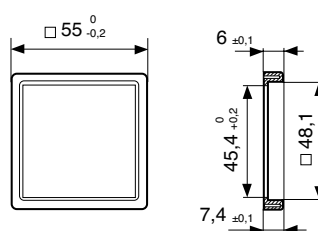


Accessories

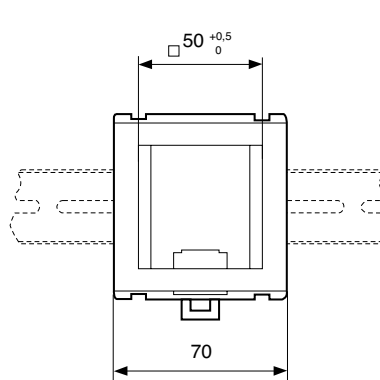
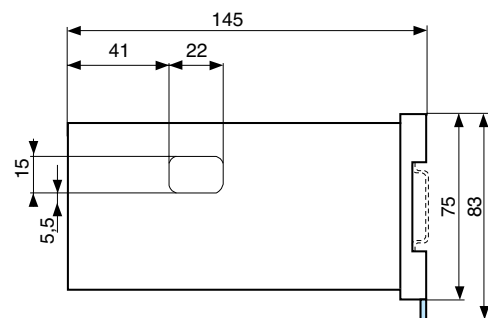
26546842 - Adaptor for 72 x 72 mm cut-out



26546846 - Adaptor for 55 x 55 mm cut-out



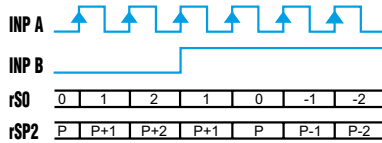
26546841 - DIN rail adaptor



Curves

Counter: dir

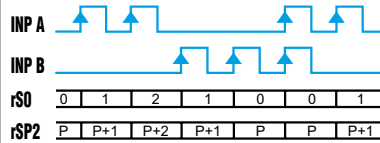
dir



Inp A: counter input / Inp B: count direction / rS0: Display 0 →Preset /
rSP2: Display Preset →0

Counter: AS

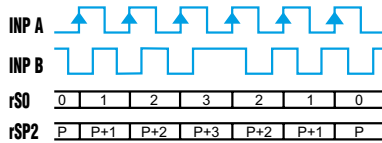
AS



Inp A: Add. counter input 1 / Inp B: Sub. counter input 2 /
rS0: Display 0 →Preset / rSP2: Display Preset →0

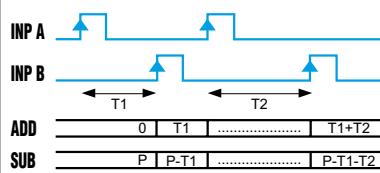
Counter: PP

PP



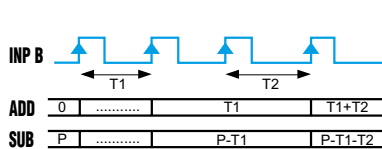
A 90 ° B Inp A: counter input counting on an edge / Inp B: reversal of
direction / rS0: Display 0 →Preset / rSP2: Display Preset →0

Chronometer: Start tcCAb



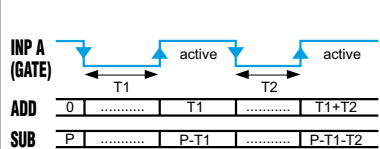
Inp A: On / Inp B: Off / Add: Display 0 →Preset /
Sub: Display Preset →0

Chronometer: Start tcCbb



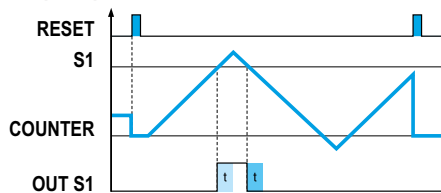
Inp A: No function / Inp B: On/Off RS0/RSP2 / Add: Display 0 →Preset /
Sub: Display Preset →0

Chronometer: Start FrErun

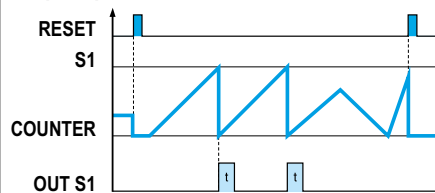


InpA: Gate Time measurement via InpA / InpB: No function

Output operation 1: rS0

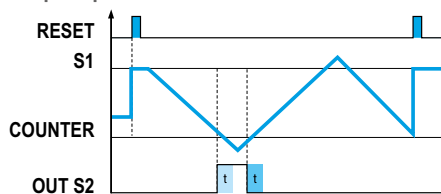


Output operation 1: rSA0

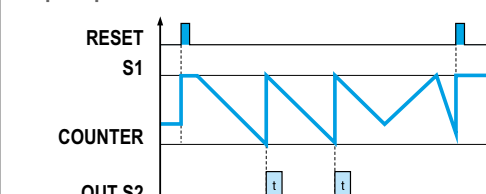


InpA: Gate Time measurement via InpA / InpB: No function

Output operation 1: rSP2

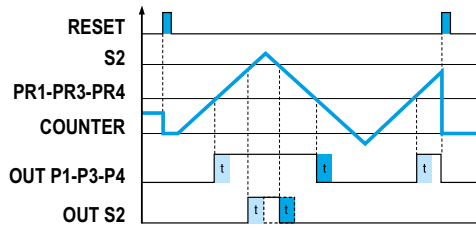


Output operation 1: rSAP2



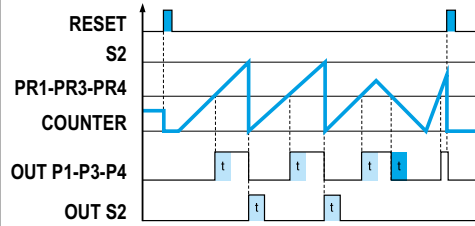
InpA: Gate Time measurement via InpA / InpB: No function

Output operation 2: rS0

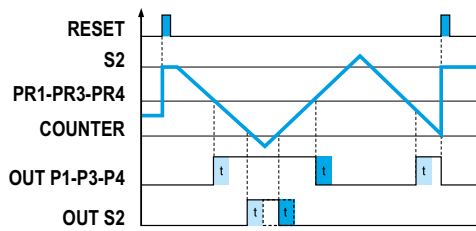


InpA: Gate Time measurement via InpA / InpB: No function

Output operation 2: rSA0

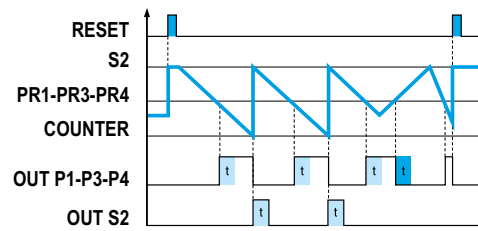


Output operation 2: rSP2



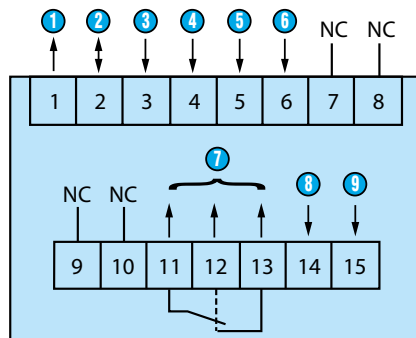
InpA: Gate Time measurement via InpA / InpB: No function

Output operation 2: rSAP2



Connections

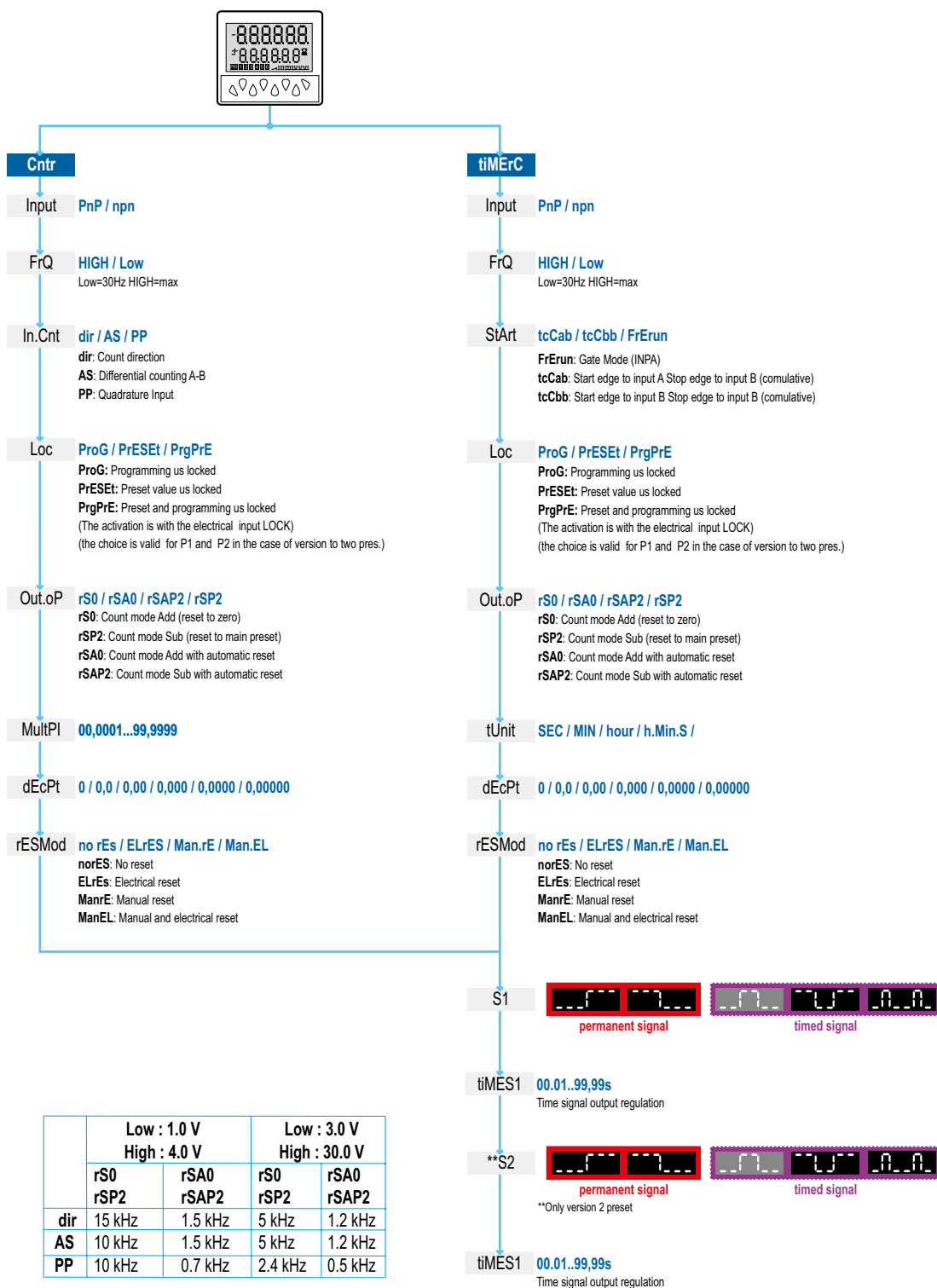
87629111



- ① Sensor voltage supply (* UB interconnected)
- ① GND (0 V=)
- ② INP A (signal A input)
- ③ INP B (signal B input)
- ④ Reset (Reset input)
- ⑤ Lock (locking switch input)
- ⑥ 11-12-13: Output 1
- ⑦ 14-15: Supply
- ⑧ Power supply - GND

Applications

Programming diagram



Warning:

The product information contained in this catalogue is given purely as information and does not constitute a representation, warranty or any form of contractual commitment. Crouzet and its subsidiaries reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.