



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Electronic multifunction counters with preselection

→ Up counters/Down counters - 48 x 48 - CTR48E "Essential"

- Counter, Preselection chronometer
- Maximum input frequency 5 k Hz
- Simple parameter setting, configuration using text menus
- Easy modification of presets
- Multiplication factor
- 3 A changeover relay
- Backlit LCD display (green) : 6 digits, height 9 mm
- IP 65 sealed panel
- Option of locking the keypad, completely or partially (preset, programming)
- Accessories for 72 x 72 or 55 x 55 cut-out, DIN rail adaptor



Part numbers

Type	Functions	Preset	Voltages	Output	Code
Green backlit LCD display	Counter, Preselection chronometer	1	10 → 30 V $\overline{\text{---}}$	1 relay	87629111
	Counter, Preselection chronometer	1	115 V \sim	1 relay	87629113
	Counter, Preselection chronometer	1	230 V \sim	1 relay	87629114
	Counter, Preselection chronometer	2	10 → 30 V $\overline{\text{---}}$	1 changeover relay, 1 NO relay	87629121
	Counter, Preselection chronometer	2	115 V \sim	1 changeover relay, 1 NO relay	87629123
	Counter, Preselection chronometer	2	230 V \sim	1 changeover relay, 1 NO relay	87629124

Accessories

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

General characteristics

Environmental characteristics	
Supply	11 → 30 V $\overline{\text{---}}$ / 115 V \sim / 230 V \sim
Relative humidity (no condensation)	EN 60068-2-30 40/93% RLF
Altitude	0 < 2000 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	Débrochable
Protection	Conforming to standard EN 60529 IP65 for panel/IP20 for connections
Front panel watertight seal	✓
Temperature limits use (°C)	-10 → +50
Temperature limits stored (°C)	-25 → +75
Weight (g)	150 $\overline{\text{---}}$ version 250 \sim version
General characteristics	
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 μ s
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
Sensor supply version \sim	-40/+15% 50 mA 230 V \sim -40/+15% 40 mA 115 V \sim
Programming and current value backed up via EEPROM memory	✓
	Service life 10 years

Operating characteristics

Functions	Preselection counter, Chronometer
Number of presets	1 or 2
Display	LCD with green backlighting
Height digits (mm)	LCD 9
Display details	- 999 999 → 999 999

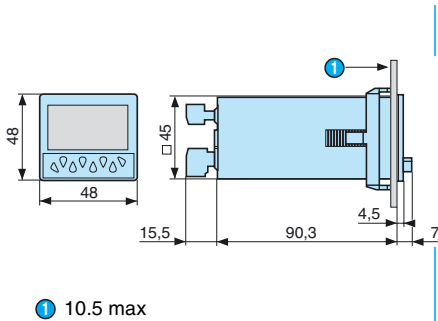
Input characteristics

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 $\overline{\text{---}}$

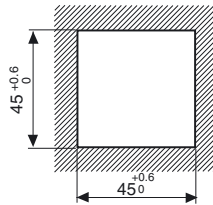
Relay output characteristics

Changeover relay	✓
NO contact	Depending on version
Maximum current	3 A
Minimum current	30 mA
Maximum voltage	30 V $\overline{\text{---}}$ / 250 V \sim
Min. voltage	5 V \sim
Response time	< 10 ms
Mechanical life (operations)	20 x 10 ⁶
Number of operations	1 x 10 ⁵
Output modes: maintained or pulsed	0.01 → 99.99 s

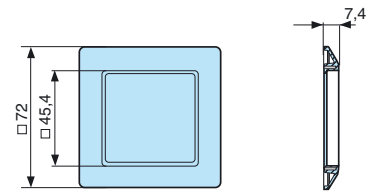
Dimensions (mm)



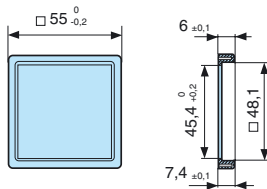
Panel cut-out



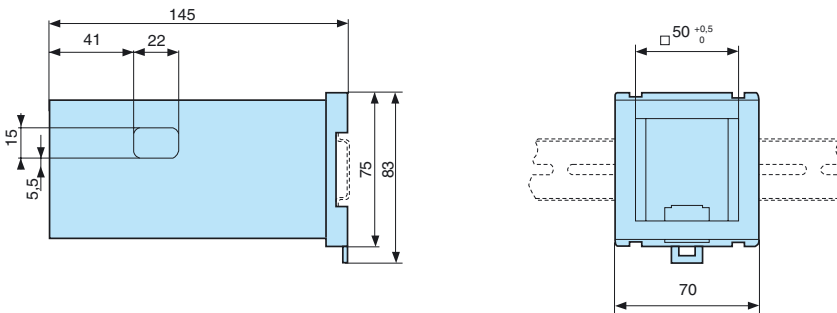
26546842 - Adaptor for 72 x 72 mm cut-out



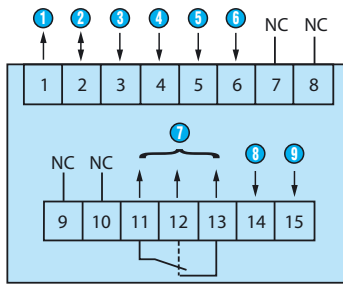
26546846 - Adaptor for 55 x 55 mm cut-out



26546841 - DIN rail adaptor

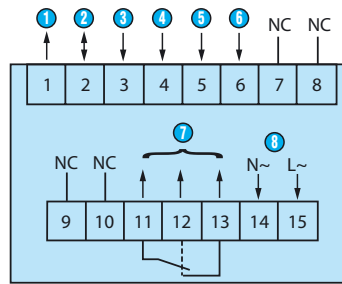


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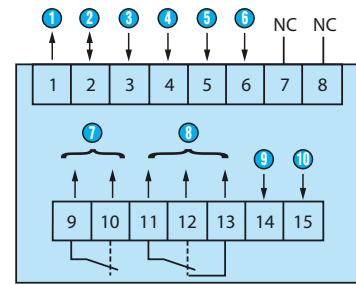
- ① Sensor voltage supply (* UB interconnected)
- ② GND (0 V₋₋₋)
- ③ INP A (signal A input)
- ④ INP B (signal B input)
- ⑤ Reset (Reset input)
- ⑥ Lock (locking switch input)
- ⑦ 11-12-13: Output 1
- ⑧ 14-15: Supply
- ⑨ Power supply - GND

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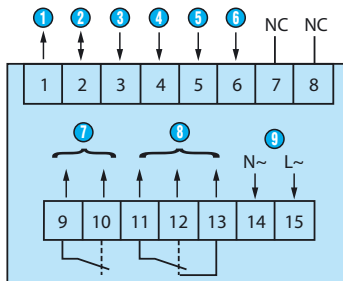
- ① Sensor voltage supply
- ② GND (0 V₋₋₋)
- ③ INP A (signal A input)
- ④ INP B (signal B input)
- ⑤ Reset (Reset input)
- ⑥ Lock (locking switch input)
- ⑦ 11-12-13: Output 1
- ⑧ 14-15: Supply

87629121



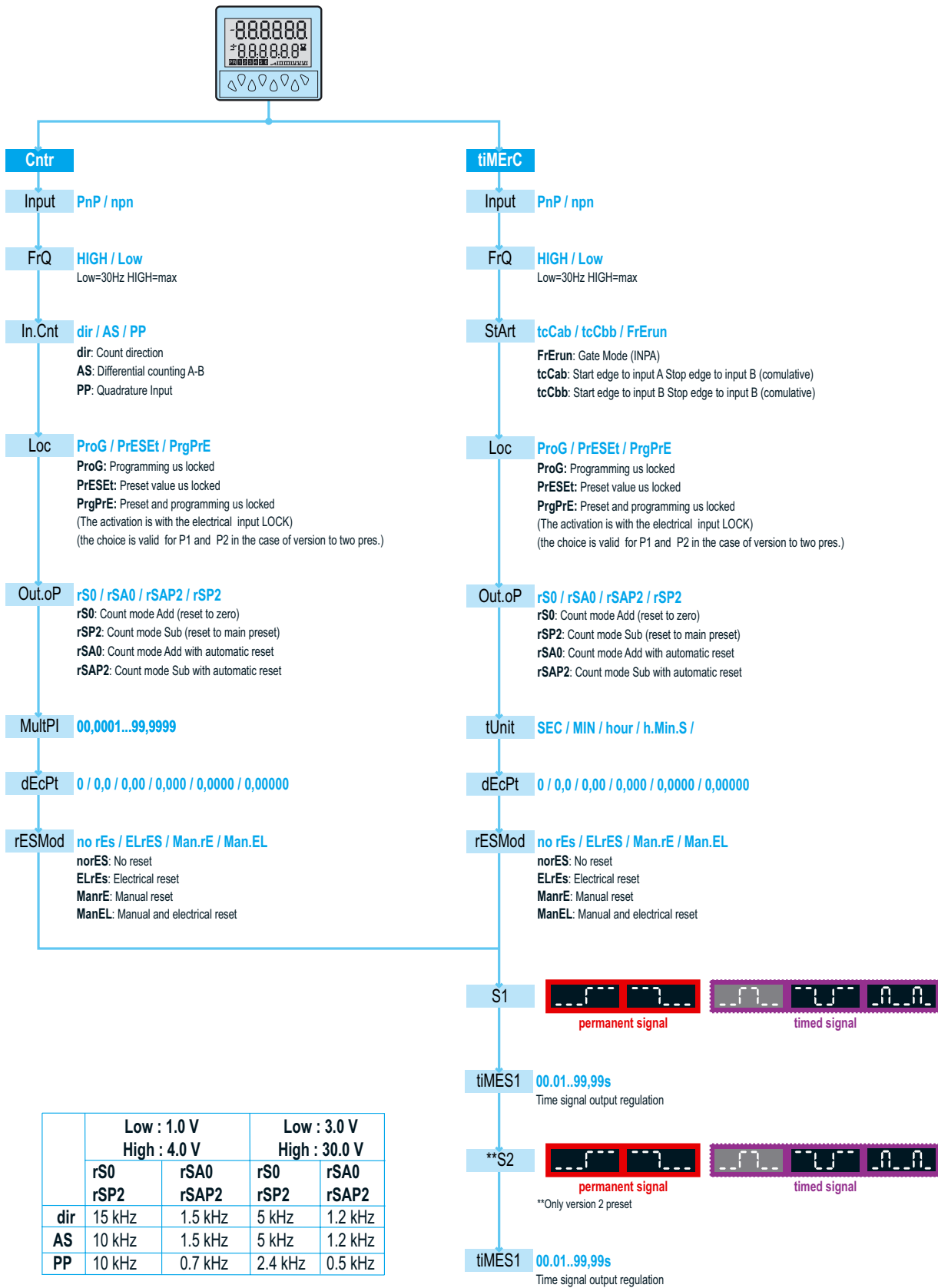
- ① Sensor voltage supply (* UB interconnected)
- ② GND (0 V₋₋₋)
- ③ INP A (signal A input)
- ④ INP B (signal B input)
- ⑤ Reset (Reset input)
- ⑥ Lock (locking switch input)
- ⑦ 9-10: Output 1
- ⑧ 11-12-13: Output 2
- ⑨ 14-15: Supply
- ⑩ Power supply - GND

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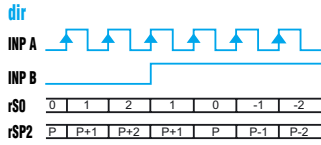


- ① Sensor voltage supply
- ② GND (0 V₋₋₋)
- ③ INP A (signal A input)
- ④ INP B (signal B input)
- ⑤ Reset (Reset input)
- ⑥ Lock (locking switch input)
- ⑦ 9-10: Output 1
- ⑧ 11-12-13: Output 2
- ⑨ 14-15: Supply

Programming diagram

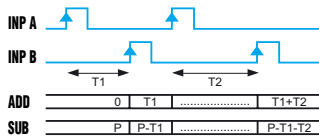


Counter: dir



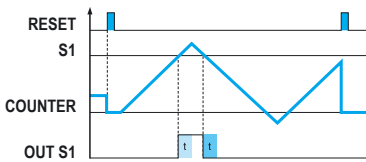
A 90° B
 Inp A: Counter input
 Counting on an edge
 Inp B: Reversal of direction
 rS0: Display 0 → Preset
 rSP2: Display Preset → 0

Chronometer: Start tcCAb

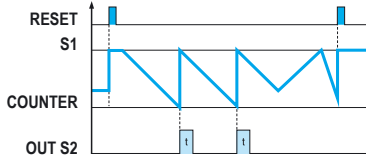


Inp A: On
 Inp B: Off
 Add: Display 0 → Preset
 Sub: Display Preset → 0

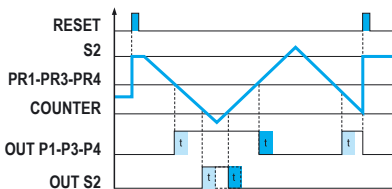
Output operation 1: rS0



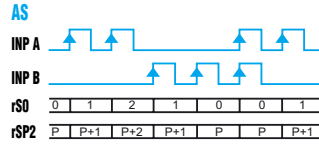
Output operation 1: rSAP2



Output operation 2: rSP2

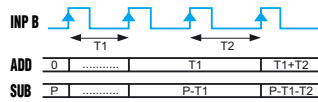


Counter: AS



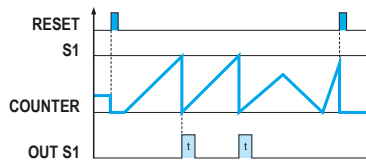
Inp A: Add. counter input 1
 Inp B: Sub. counter input 2
 rS0: Display 0 → Preset
 rSP2: Display Preset → 0

Chronometer: Start tcCbb

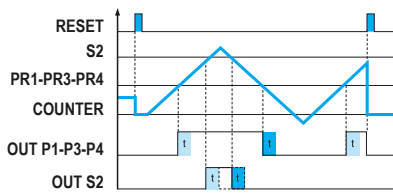


Inp A: No function
 Inp B: On/Off
 RS0/RSP2
 Add: Display 0 → Preset
 Sub: Display Preset → 0

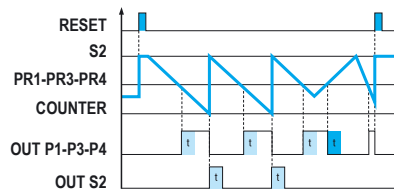
Output operation 1: rSA0



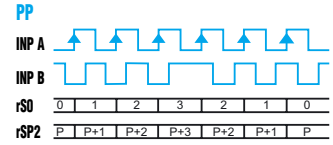
Output operation 2: rS0



Output operation 2: rSAP2

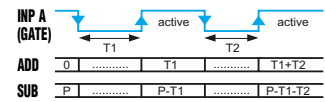


Counter: PP



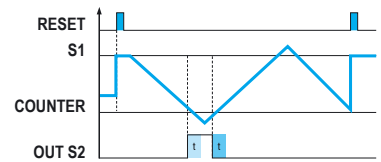
A 90° B
 Inp A: Counter input
 Counting on an edge
 Inp B: Reversal of direction
 rS0: Display 0 → Preset
 rSP2: Display Preset → 0

Chronometer: Start FrErun



InpA: Gate
 Time measurement via InpA
 InpB: No function

Output operation 1: rSP2



Output operation 2: rSA0

