

Electronic multifunction counters with preselection

→ Up counters / Down counters - 48 x 48 - CTR48

- Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer
- Maximum input frequency 40 kHz
- Simple parameter setting, configuration using text menus
- Easy modification of presets
- Scaling factor
- 5 A changeover relay and solid state output
- Removable connectors
- Backlit LCD display (orange) : 2 lines, 6 digits or multicoloured display (green-red)
- 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
Orange backlit LCD display	Counter, Tachometer, Chronometer, Preselection multi-totalizer	1	10 → 30 V $\overline{\text{DC}}$	1 changeover relay, 1 solid state	87621111
	Counter, Tachometer, Chronometer, Preselection multi-totalizer	1	24 V \sim	1 changeover relay, 1 solid state	87621112
	Counter, Tachometer, Chronometer, Preselection multi-totalizer	1	90 → 260 V \sim	1 changeover relay, 1 solid state	87621115
	Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer	2	10 → 30 V $\overline{\text{DC}}$	1 changeover relay, 1 NO relay, 2 solid state	87621121
	Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer	2	24 V \sim	1 changeover relay, 1 NO relay, 2 solid state	87621122
	Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer	2	90 → 260 V \sim	1 changeover relay, 1 NO relay, 2 solid state	87621125
Multicoloured LCD display (green-red)	Counter, Tachometer, Chronometer, Preselection multi-totalizer	1	10 → 30 V $\overline{\text{DC}}$	1 changeover relay, 1 solid state	87621211
	Counter, Tachometer, Chronometer, Preselection multi-totalizer	1	24 V \sim	1 changeover relay, 1 solid state	87621212
	Counter, Tachometer, Chronometer, Preselection multi-totalizer	1	90 → 260 V \sim	1 changeover relay, 1 solid state	87621215
	Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer	2	10 → 30 V $\overline{\text{DC}}$	1 changeover relay, 1 NO relay, 2 solid state	87621221
	Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer	2	24 V \sim	1 changeover relay, 1 NO relay, 2 solid state	87621222
	Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer	2	90 → 260 V \sim	1 changeover relay, 1 NO relay, 2 solid state	87621225

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	10 → 30 V $\overline{\text{---}}$ / 24 V \sim / 90 → 260 V \sim
Relative humidity (no condensation)	EN 60068-2-30 40/93% RLF
Altitude	0 < 2000 m
Certifications	UL - cULus (pending) - 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	Removable
Protection	Conforming to standard EN 60529 IP65 for panel / IP20 for connections
Front panel watertight seal	✓
Temperature limits use (°C)	-20 → +65
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
Scaling factor (each input impulse is divided by this value)	01.0000 → 99.9999
Decimal point selectable for ease of reading	0 0.0 0.00 0.000 0.0000 0.00000
Sensor supply version \sim	24 V $\overline{\text{---}}$ -20/+15% 50 mA
Programming and current value backed up via EEPROM memory	✓ Service life 10 years

Operating characteristics

Functions	Preselection counter, Tachometer, Chronometer, Multi-totalizer, Batch counters, Totalizer
Number of presets	1 or 2
Display	LCD with orange backlighting/Multicoloured LCD (green-red)
Height digits (mm)	LCD 9
Display details	- 999 999 → 999 999

Input characteristics

Inputs	2 counter inputs 1 reset input, 1 gate input
Input modes	Dir: Directional AS: up/dn AA: up/up PP: phase PP2: phase 2 PP4: phase 4
Input type	Voltage or solid state
High level	8 V $\overline{\text{---}}$ → 30 V $\overline{\text{---}}$
Low level	0 → 2 V $\overline{\text{---}}$

Solid state output characteristics

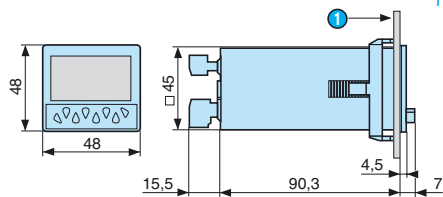
Maximum current	30 mA
Max. voltage	10 → 30 V $\overline{\text{---}}$ for the $\overline{\text{---}}$ version 24 V $\overline{\text{---}}$ -20/+15%

Relay output characteristics

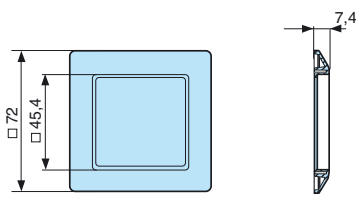
Changeover relay	✓
NO contact	Depending on version
Maximum current	5 A
Minimum current	10 mA
Maximum voltage	30 V $\overline{\text{---}}$ / 250 V \sim
Min. voltage	5 V \sim
Response time	< 13 ms
Mechanical life (operations)	20 x 10 ⁶
Number of operations to 5 A	5 x 10 ⁴
Output modes: maintained or pulsed	0.01 → 99.99 s

Dimensions (mm)

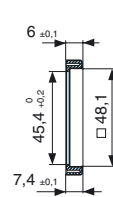
26546842 - Adaptor for 72 x 72 mm cut-out



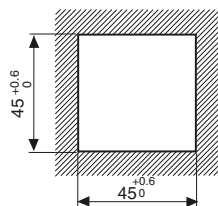
1 10.5 max.



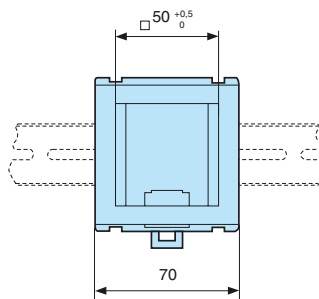
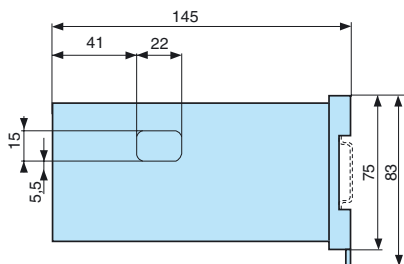
26546846 - Adaptor for 55 x 55 mm cut-out



Panel cut-out

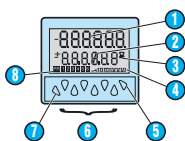


26546841 - DIN rail adaptor



Principles

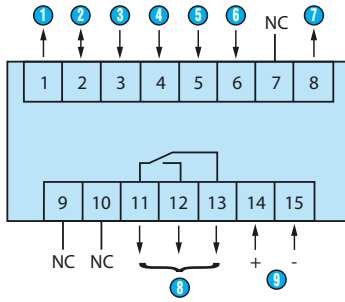
Display and buttons



- 1 Current value
- 2 Selected value
- 3 Chronometer display
- 4 Active output indication
- 5 Prog/mode button
- 6 Preset control buttons
- 7 Button required for programming parameters
- 8 Shows which value is displayed

Connections

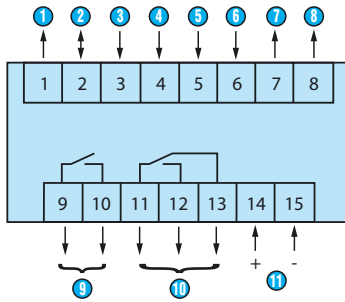
87621111 / 211



- ① Sensor voltage supply (* UB interconnected)
- ② GND (0 V $\overline{\text{---}}$)
- ③ INP A (signal A input)
- ④ INP B (signal B input)
- ⑤ Reset (Reset input)
- ⑥ Gate input
- ⑦ Output 1 - 10-30 V $\overline{\text{---}}$ /30 mA
- ⑧ 11-12-13: Output 1
- ⑨ 14-15: Supply

Output: 5 A/250 V \sim /AC: 24 V \sim

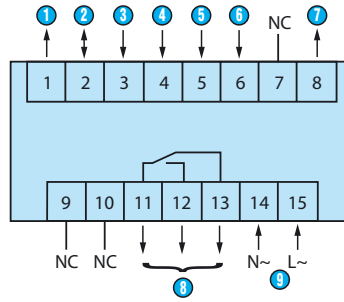
87621121 / 221



- ① Sensor voltage supply (* UB interconnected)
- ② GND (0 V $\overline{\text{---}}$)
- ③ INP A (signal A input)
- ④ INP B (signal B input)
- ⑤ Reset (Reset input)
- ⑥ Gate input
- ⑦ Output 1: 10-30 V $\overline{\text{---}}$ /30 mA
- ⑧ Output 2: 10-30 V $\overline{\text{---}}$ /30 mA
- ⑨ 9-10: Output 1
- ⑩ 11-12-13: Output 2
- ⑪ 14-15: Supply

Output: 5 A/250 V \sim / AC: 90 \rightarrow 260 V $\overline{\text{---}}$

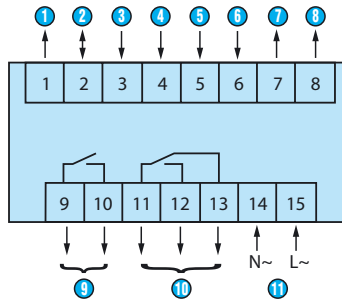
87621112 / 212



- ① Sensor voltage supply
- ② GND (0 V $\overline{\text{---}}$)
- ③ INP A (signal A input)
- ④ INP B (signal B input)
- ⑤ Reset (Reset input)
- ⑥ Gate input
- ⑦ Output 1 - 24 V $\overline{\text{---}}$ /30 mA
- ⑧ 11-12-13: Output 1
- ⑨ 14-15: Supply

Output: 5 A/250 V \sim /AC: 24 V \sim

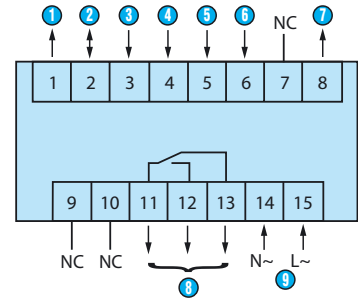
87621122 / 222



- ① Sensor voltage supply
- ② GND (0 V $\overline{\text{---}}$)
- ③ INP A (signal A input)
- ④ INP B (signal B input)
- ⑤ Reset (Reset input)
- ⑥ Gate input
- ⑦ Output 1: 24 V $\overline{\text{---}}$ /30 mA
- ⑧ Output 2: 24 V $\overline{\text{---}}$ /30 mA
- ⑨ 9-10: Output 1
- ⑩ 11-12-13: Output 2
- ⑪ 14-15: Supply

Output: 5 A/250 V \sim / AC: 90 \rightarrow 260 V $\overline{\text{---}}$

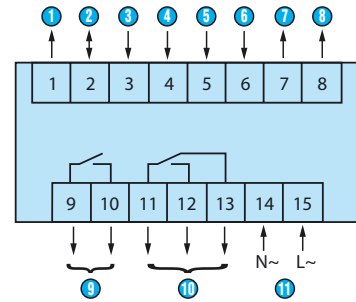
87621115 / 215



- ① Sensor voltage supply
- ② GND (0 V $\overline{\text{---}}$)
- ③ INP A (signal A input)
- ④ INP B (signal B input)
- ⑤ Reset (Reset input)
- ⑥ Gate input
- ⑦ Output 1 - 24 V $\overline{\text{---}}$ /30 mA
- ⑧ 11-12-13: Output 1
- ⑨ 14-15: Supply

Output: 5 A/250 V \sim / AC: 24 V \sim

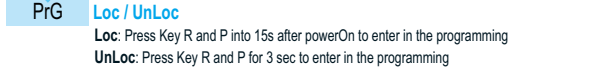
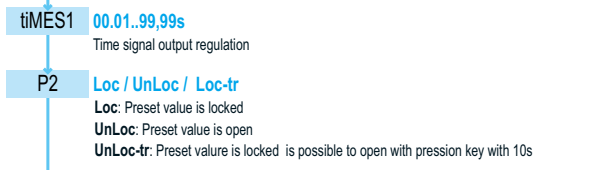
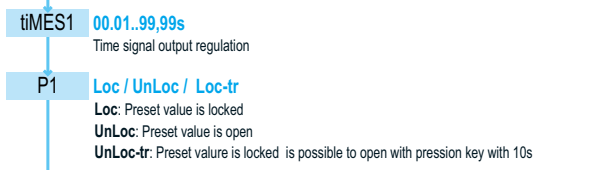
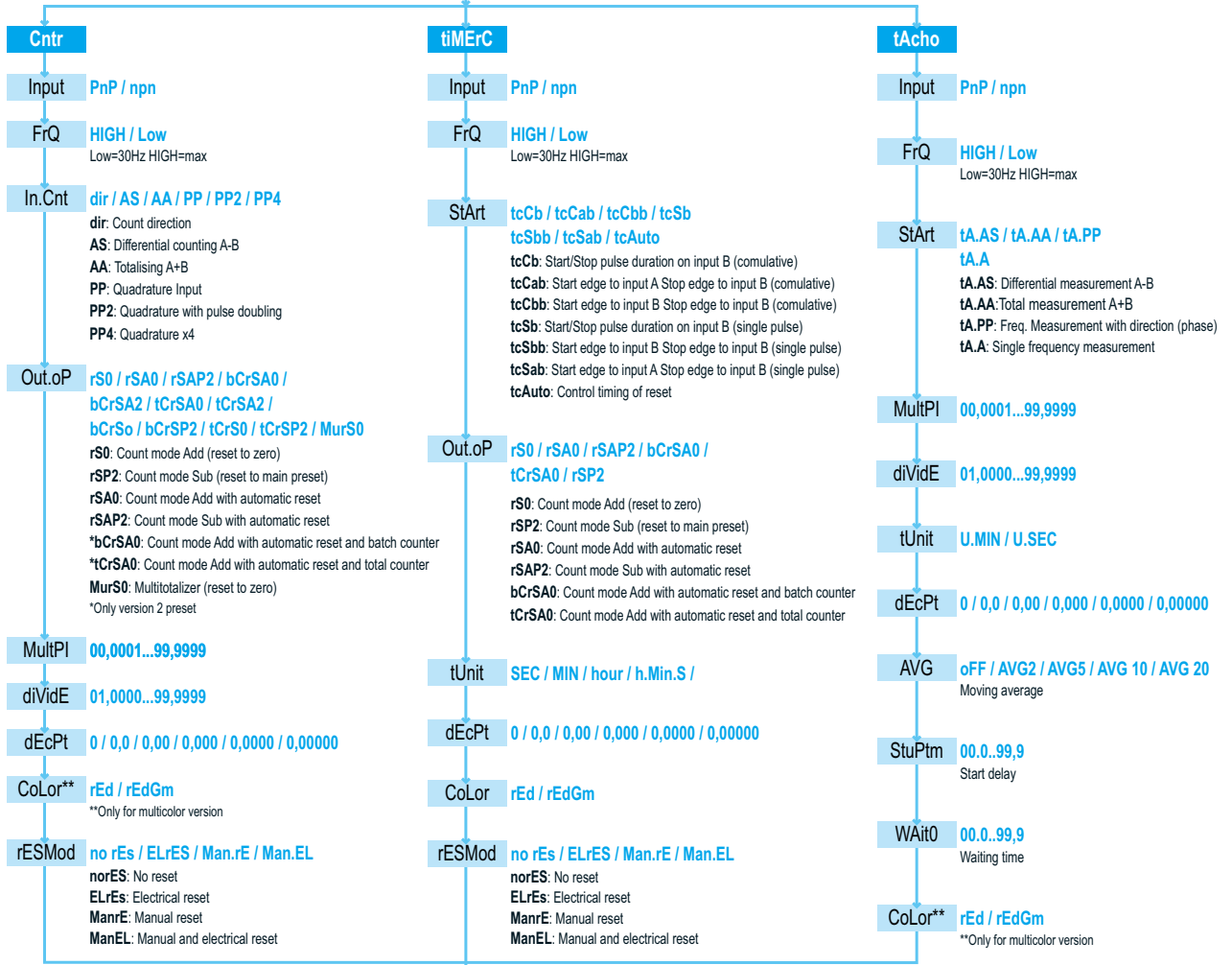
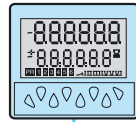
87621125 / 225



- ① Sensor voltage supply
- ② GND (0 V $\overline{\text{---}}$)
- ③ INP A (signal A input)
- ④ INP B (signal B input)
- ⑤ Reset (Reset input)
- ⑥ Gate input
- ⑦ Output 1: 24 V $\overline{\text{---}}$ /30 mA
- ⑧ Output 2: 24 V $\overline{\text{---}}$ /30 mA
- ⑨ 9-10: Output 1
- ⑩ 11-12-13: Output 2
- ⑪ 14-15: Supply

Output: 5 A/250 V \sim / AC: 90 \rightarrow 260 V $\overline{\text{---}}$

Programming diagram



Counter

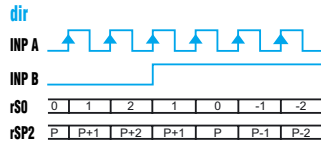
Output operation modes	rSo / rSP2 bCrS0 bCrSP2 tCrS0 tCrSP2 MurS0	rSA0	rSAP2 bCrSA0 bCrSA2 tCrSA0 tCrSA2
dir	40 kHz	5.2 kHz	4.2 kHz
AS	20 kHz	4.4 kHz	4.2 kHz
AA			
PP	20 kHz	2.2 kHz	2.1 kHz
PP2			
PP4	15 kHz	1.1 kHz	1.0 kHz

Tachometer

tA.A	
tA.AS	40 kHz
tA.AA	
Quad	20 kHz

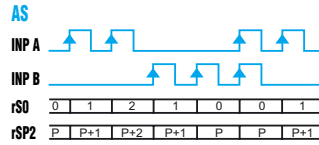
Curves

Counter: dir



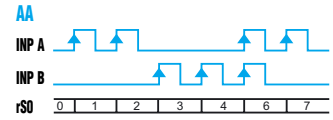
Inp A: counter input
 Inp B: count direction
 rS0: Display 0 → Preset
 rSP2: Display Preset → 0

Counter: AS



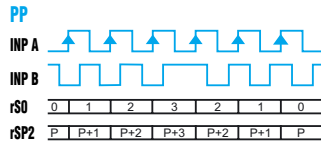
Inp A: Add. counter input 1
 Inp B: sub. counter input 2
 rS0: Display 0 → Preset
 rSP2: Display Preset → 0

Counter: AA



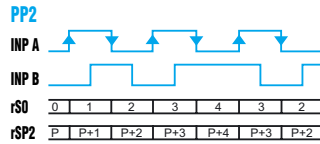
Inp A: Add. counter input 1
 Inp B: sub. counter input 2
 rS0: Display 0 → Preset

Counter: PP



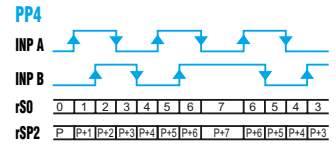
A 90° B
 Inp A: Counter input
 Counting on an edge
 Inp B: Reversal of direction
 rS0: Display 0 → Preset
 rSP2: Display Preset → 0

Counter: PP2



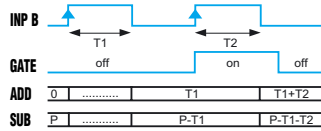
A 90° B
 Inp A: Counter input
 Counting on a rising edge and on a falling edge
 Inp B: Reversal of direction
 rS0: Display 0 → Preset
 rSP2: Display Preset → 0

Counter: PP4



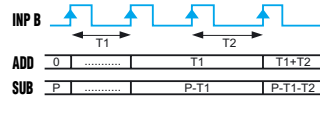
A 90° B
 Inp A: Counter input
 Counting on a rising edge and on a falling edge
 Inp B: Counter input
 Counting on a rising edge and on a falling edge, reversal of direction
 rS0: Display 0 → Preset
 rSP2: Display Preset → 0

Chronometer: Start tcCb



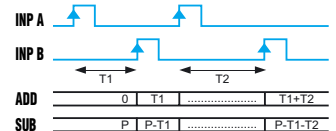
Inp A: No function
 Inp B: On/Off
 Cumulative time counting
 Add: Display 0 → Preset
 Sub: Display Preset → 0

Chronometer: Start tcCbb



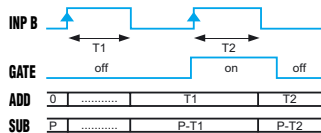
Inp A: No function
 Inp B: On/Off
 Cumulative time counting
 Add: Display 0 → Preset
 Sub: Display Preset → 0

Chronometer: Start tcCAb



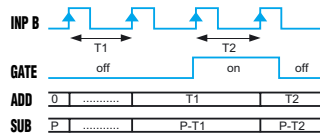
Inp A: On
 Inp B: Off
 Cumulative time counting
 Add: Display 0 → Preset
 Sub: Display Preset → 0

Chronometer: Start tcSb



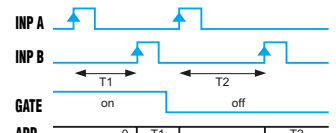
Inp A: No function
 Inp B: On/Off
 Individual time counting while B is active, automatic reset before each new count
 Add: Display 0 → Preset
 Sub: Display Preset → 0

Chronometer: Start tcSbb



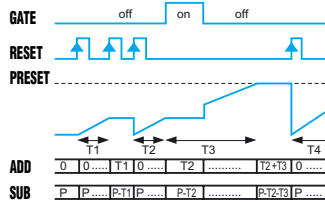
Inp A: No function
 Inp B: On/Off
 Individual time counting, automatic reset before each new count
 Add: Display 0 → Preset
 Sub: Display Preset → 0

Chronometer: Start tcSAb



Inp A: On
 Inp B: Off
 Individual time counting, automatic reset before each new count
 Add: Display 0 → Preset
 Sub: Display Preset → 0

Chronometer: Start tcAuto



Inp A: No function
 Inp B: No function
 Time counting command via Reset (manual or electrical)
 Add: Display 0 → Preset
 Sub: Display Preset → 0
 The Gate input has a display memory function

Tachometer: Start tA.A

INP A	0	F _{A0}	F _{A1}	F _{A2}	0	x
Display	0	0	F _{A0}	F _{A1}	F _{A2}	0

Inp A: Frequency input
 Inp B: No function

Tachometer: Start tA.AS

INP A	0	F _{A0}	F _{A1}	F _{A2}	0	x
INP B	0	0	F _{B0}	F _{B1}	F _{B2}	x
Display	0	0	F _{A0}	F _{A0} -F _{B0}	F _{A1} -F _{B1}	-F _{B2}

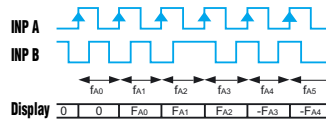
Inp A: Frequency input 1
 Inp B: Frequency input 2
 Formula: A - B

Tachometer: Start tA.AA

INP A	0	F _{A0}	F _{A1}	F _{A2}	0	x
INP B	0	0	F _{B0}	F _{B1}	F _{B2}	x
Display	0	0	F _{A0}	F _{A0} +F _{B0}	F _{A1} +F _{B1}	F _{B2}

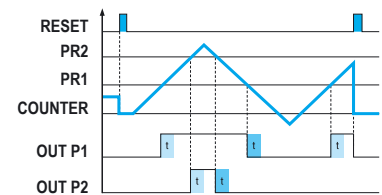
Inp A: Frequency input 1
 Inp B: Frequency input 2
 Formula: A + B

Tachometer: Start tA.PP

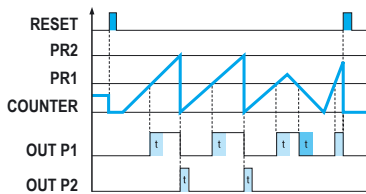


A 90° B
 Inp A: Frequency input 1
 Inp B: Reversal of direction

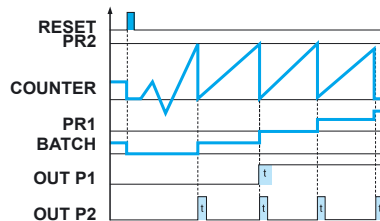
Output operation: OutoP rS0



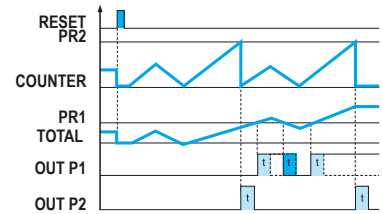
Output operation: OutoP rSA0



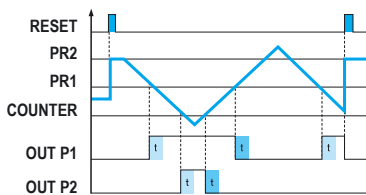
Output operation: OutoP bCrSA0



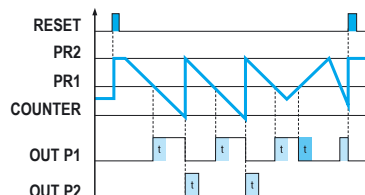
Output operation: OutoP tCrSA0



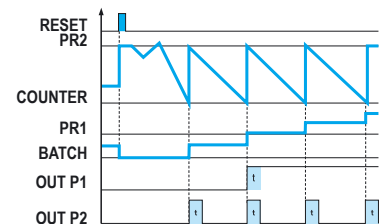
Output operation: OutoP rSP2



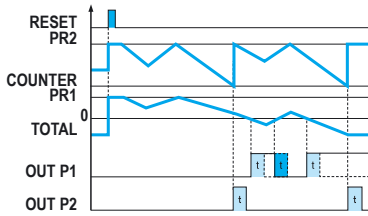
Output operation: OutoP rSAP2



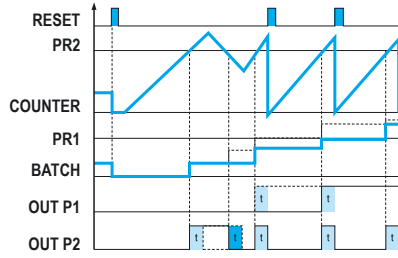
Output operation: OutoPbCrSA2



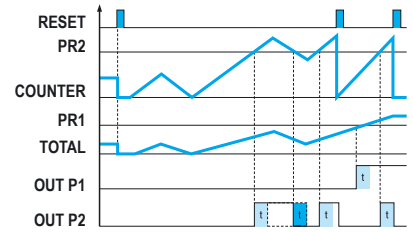
Output operation: OutoP tCrSA2



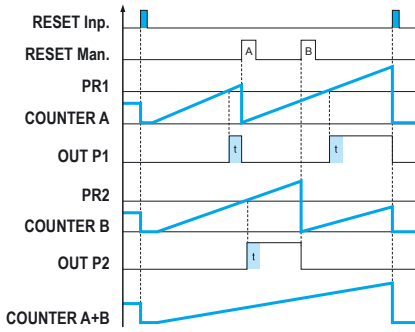
Output operation: OutoP bCrS0



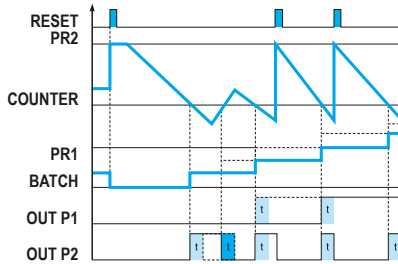
Output operation: OutoP tCrS0



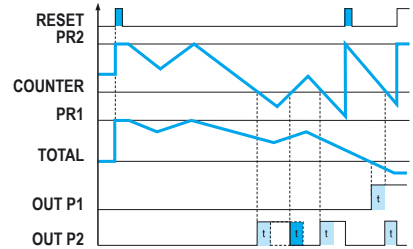
Output operation: OutoP MurS0 (AA)



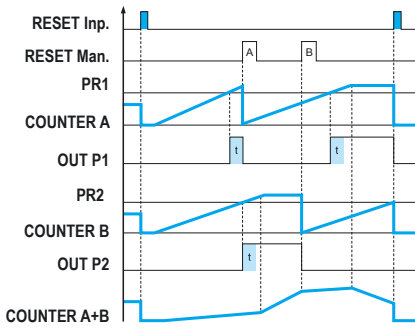
Output operation: OutoP bCrSP2



Output operation: OutoP tCrSP2



Output operation: OutoP MurS0 (AS)



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