

## 48 x 48 Max. Counting Speed 40 KHZ Orange backlit LCD display Part number 87621111



- Counter, Tachometer, Chronometer, Multi-totalizer, Batch counter, Preselection totalizer
- Maximum input frequency 40 k Hz
- 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
87621111 Orange backlit LCD display	Counter, Tachometer, Chronometer, Preselection multi-totalizer	1	10 →30 VDC	1 changeover relay, 1 solid state

### Specifications

#### Physical details and protection

Supply	10 →30 VDC / 24 V AC / 90 →260 VAC
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 DC version 250 AC 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 µs
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 AC	24 VDC -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

#### Inputs specifications

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 VDC →30 VDC
Low level	0 →2 VDC

**Solid state output characteristics**

Maximum current	30 mA
Max. voltage	10 →30 VDC for the DC version 24 VDC -20/+15 %

**Relay output characteristics**

Changeover relay	•
NO contact	Depending on version
Maximum current	5 A
Minimum current	10 mA
Maximum voltage	30 VDC / 250 VAC
Min. voltage	5 VAC/DC
Response time	< 13 ms
Mechanical life (operations)	20 x 10 <sup>6</sup>
Number of operations to 5 A	5 x 10 <sup>4</sup>
Output modes : maintained or pulsed	0.01 →99.99 s

**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

**Principles**

N°	Legend
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

**Dimensions (mm)**

N°	Legend
①	10.5 max.

#### Dimensions (mm)

26546842 - Adaptor for 72 x 72 mm cut-out



#### Dimensions (mm)

26546846 - Adaptor for 55 x 55 mm cut-out



#### Dimensions (mm)

Panel cut-out



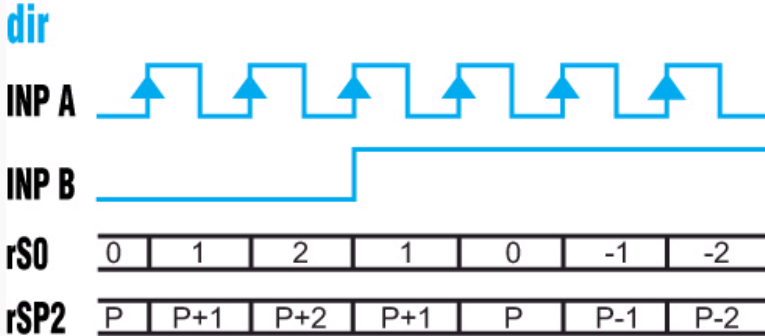
#### Dimensions (mm)

26546841 - DIN rail adaptor



Curves

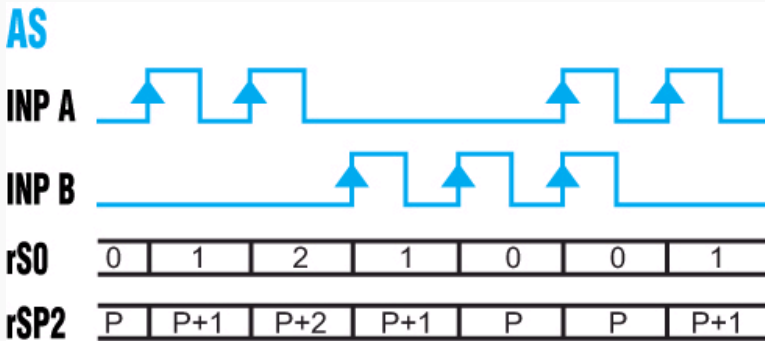
Counter : dir



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

Curves

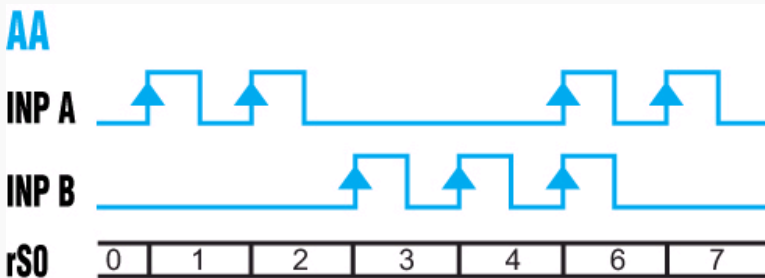
Counter : AS



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

Curves

Counter : AA



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

Curves

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

## Curves

Counter : PP2

# 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

## Curves

Counter : PP4

# 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

## Curves

Chronometer : Start tcCb



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

## Curves

Chronometer : Start tcCbb



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

**Curves**

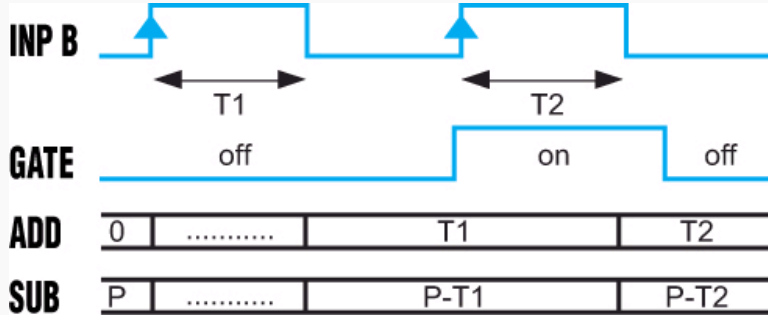
Chronometer : Start tcCAb



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

**Curves**

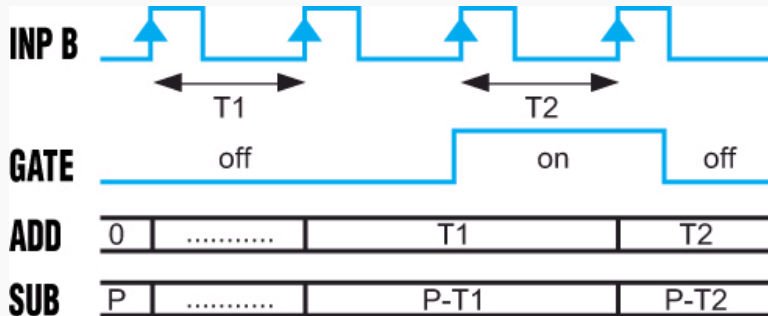
Chronometer : Start tcSb



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

**Curves**

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

**Curves**

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

**Curves**

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

**Curves**

Tachometer : Start tA.A



Inp A : Frequency input Inp B : No function

**Curves**

Tachometer : Start tA.AS



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

**Curves**

Tachometer : Start tA.AA

<b>INP A</b>	0	$F_{A0}$	$F_{A1}$	$F_{A2}$	0	x
<b>INP B</b>	0	0	$F_{B0}$	$F_{B1}$	$F_{B2}$	x
<b>Display</b>	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

**Curves**

Tachometer : Start tA.PP



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

**Curves**

Output operation : OutoP rS0



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

**Curves**

Output operation : OutoP rSA0



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

**Curves**

Output operation : OutoP bCrSA0





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

**Curves**

Output operation : OutoP tCrSA0



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

**Curves**

Output operation : OutoP rSP2



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

**Curves**

Output operation : OutoP rSAP2



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

Curves

Output operation : OutoPbCrSA2



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

Curves

Output operation : OutoP tCrSA2



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

Curves

Output operation : OutoP bCrS0



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

**Curves**

Output operation : OutoP tCrS0



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

**Curves**

Output operation : OutoP MurS0 (AA)



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

**Curves**

Output operation : OutoP bCrSP2



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

**Curves**

Output operation : OutoP tCrSP2



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

**Curves**

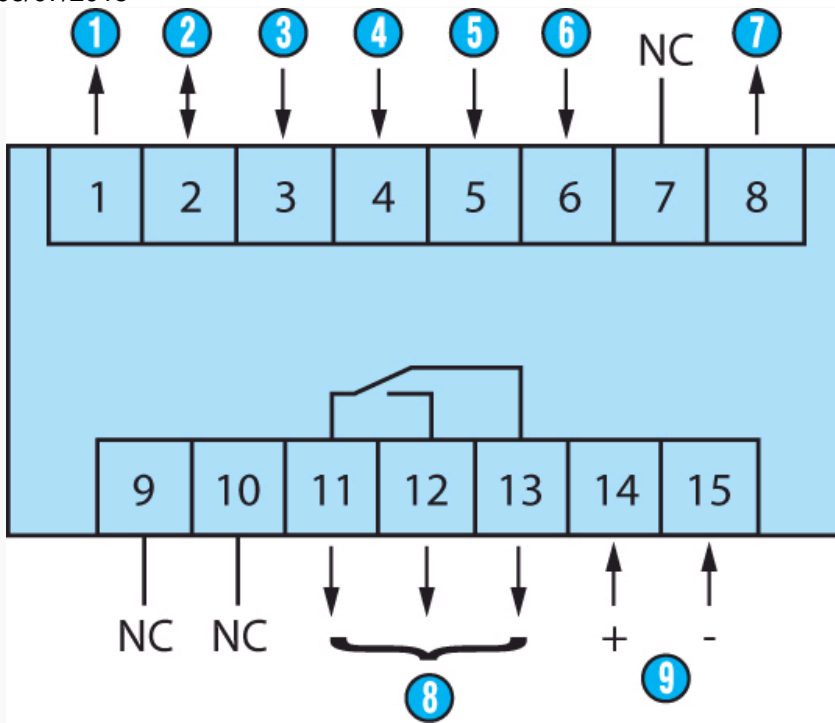
Output operation : OutoP MurS0 (AS)



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

**Connections**

87621111 / 211



Output : 5 A/250 VAC/AC : 24 VAC

N°	Legend
①	Sensor voltage supply (* UB interconnected)
②	GND (0 VDC)
③	INP A (signal A input)
④	INP B (signal B input)
⑤	Reset (Reset input)
⑥	Gate input
⑦	Output 1 - 10-30 VDC/30 mA
⑧	11-12-13 : Output 1
⑨	14-15 : Supply

#### Connections

87621112 / 212

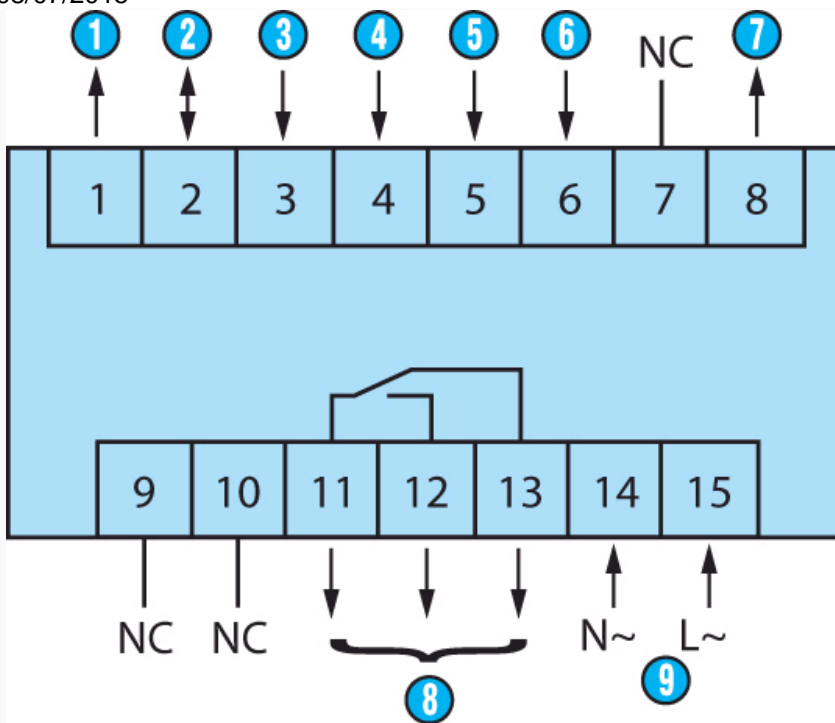


Output : 5 A/250 VAC/AC : 24 VAC

N°	Legend
1	Sensor voltage supply
2	GND (0 VDC)
3	INP A (signal A input)
4	INP B (signal B input)
5	Reset (Reset input)
6	Gate input
7	Output 1 - 24 VDC/30 mA
8	11-12-13 : Output 1
9	14-15 : Supply

#### Connections

87621115 / 215



Output : 5 A/250 VAC/DC : 10 30 VDC

N°	Legend
①	Sensor voltage supply
②	GND (0 VDC)
③	INP A (signal A input)
④	INP B (signal B input)
⑤	Reset (Reset input)
⑥	Gate input
⑦	Output 1 - 24 VDC/30 mA
⑧	11-12-13 : Output 1
⑨	14-15 : Supply

### Connections

87621121 / 221





Output : 5 A/250 VAC/AC : 90 260 VDC

N°	Legend
①	Sensor voltage supply (* UB interconnected)
②	GND (0 VDC)
③	INP A (signal A input)
④	INP B (signal B input)
⑤	Reset (Reset input)
⑥	Gate input
⑦	Output 1 : 10-30 VDC/30 mA
⑧	Output 2 : 10-30 VDC/30 mA
⑨	9-10 : Output 1
⑩	11-12-13 : Output 2
⑪	14-15 : Supply

#### Connections

87621122 / 222



Output : 5 A/250 VAC/AC : 90 260 VDC

N°	Legend
①	Sensor voltage supply
②	GND (0 VDC)
③	INP A (signal A input)
④	INP B (signal B input)
⑤	Reset (Reset input)
⑥	Gate input
⑦	Output 1 : 24 VDC/30 mA
⑧	Output 2 : 24 VDC/30 mA
⑨	9-10 : Output 1
⑩	11-12-13 : Output 2
⑪	14-15 : Supply

#### Connections

87621125 / 225



Output : 5 A/250 VAC/AC : 90 260 VDC

N°	Legend
①	Sensor voltage supply
②	GND (0 VDC)
③	INP A (signal A input)
④	INP B (signal B input)
⑤	Reset (Reset input)
⑥	Gate input
⑦	Output 1 : 24 VDC/30 mA
⑧	Output 2 : 24 VDC/30 mA
⑨	9-10 : Output 1
⑩	11-12-13 : Output 2
⑪	14-15 : Supply

## Applications

### Programming diagram



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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