

# Electronic Preset Counter with 2 Presets



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## NE214



### Features

Models	LED-preset counter with 2 presets Batch counter or Tachometer Totalizer, Time meter
Connection	Incremental encoder One-channel, digital sensor 2 one-channel digital sensors for difference and parallel counting
Functions	Programmable momentary signal time Batch counter with multiplier (1...999) Start count programmable Scaling factor programmable 0.0001...9999.99 Programmable preset mode: - Step and main preset, etc.

### Order designation

Order no.	Interface
0	Without interface
1	RS485
2	RS422
3	RS232
	Output
0	Without relay
1	With relay
2	With relay and analog output *
	Supply voltage
1	24 / 48 VAC
2	115 / 230 VAC
3	24 VDC

NE214.    AX01 \* Only for AC supply

### Mechanical data

Display	7-segment LED-display 6-digit display of real value, 14 mm high Programmable decimal point Display suppression of preceding zeroes - Minus sign for negative values
Operation, keypad	Front membrane with short-stroke keys
Front dimensions	DIN housing, 96 x 48 mm
Mounting	Front panel with clip frame
Weight	AC: approx. 350 g DC: approx. 250 g
Connection	Plug-in screw terminals Grid 5.08 mm / 3.81 mm
Core cross-section	Max. 1.5 mm <sup>2</sup>
Housing material	Macrolon 6485 (PC) black, UL 94V-0
Keypad membrane material	Polyester

### Counting mode of signal inputs A / B

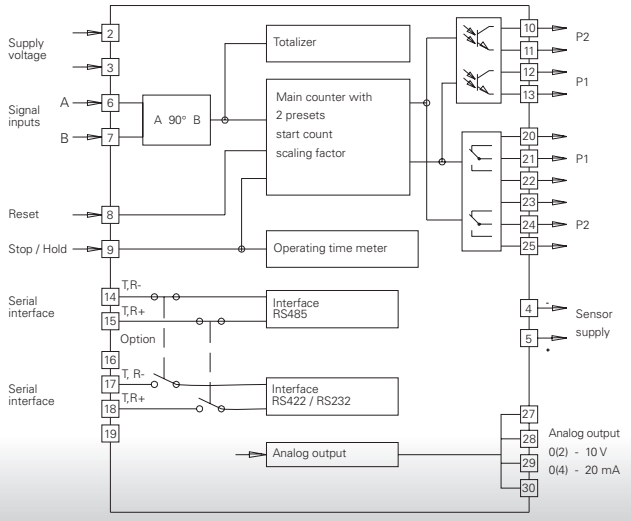
- Up/Down
- Difference, A - B
- Total, A + B
- Phase, A 90° B x1
- Phase, A 90° B x2
- Phase, A 90° B x4

### Ambient conditions

Ambient temperature	0...+50 °C
Storage temperature	-20...+70 °C
Relative humidity	Max. relative humidity 80 %, at 25 °C, non-condensing
Protection	Front IP 65 to DIN 40050
General rating	EN 61010 Part 1 - Protection standard II - Overvolt. protection categ. II - Contamination factor 2
Interference immunity	EN 50082-2
Emitted interference	EN 50081-1
Approvals	UL-/cUL-Approvals

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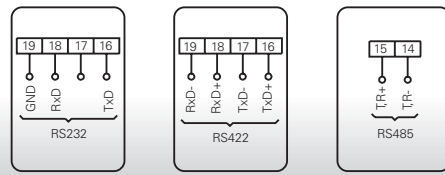
## Block diagram



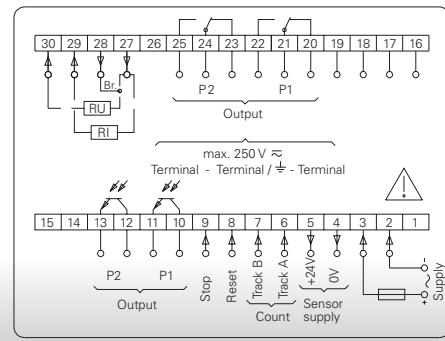
## Electrical data

Supply voltage	Choice of two voltages (AC) via switch on device. 115 / 230 VAC ± 10 % (50 / 60 Hz) 24 / 48 VAC ± 10 % (50 / 60 Hz) 24 VDC ± 10 %, 5 % residual ripple
Power consumption	7 VA, 5 W
Sensor supply	12...26 VDC / max. 100 mA
Signal inputs	Comparator inputs PNP-, NPN-logic Input resistance 3 kOhm Voltage level 4...40 V
Input counting rate	3 Hz, 25 Hz, 10 kHz programmed
Control inputs	2 control inputs for reset, stop, hold, print, etc.
Signal outputs	Programmable as momentary or permanent signals; Impulse time can be programmed 0.01...9.99 s, tolerance: +0.01s
Relay signal outputs	2 floating center-zero relays Internal spark quenching Max. switching voltage 250 VAC Max. switching power 1 A Max. swit. capacity 150 VA/30 W
Electronic signal outputs	Optocoupler Max. switching voltage +40 V Max. switching power 15 mA Max. residual voltage < 1 V
Analog output	0(2)...10 V, 0(4)...20 mA Offset as well as max. and min. analog limits can be programmed by front keypad
Reset	Manually, electrically or automatically
Data storage	> 10 years via EEPROM

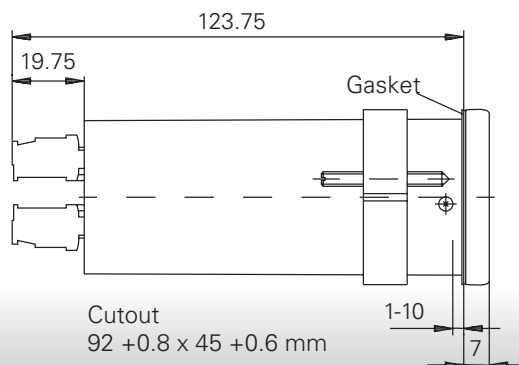
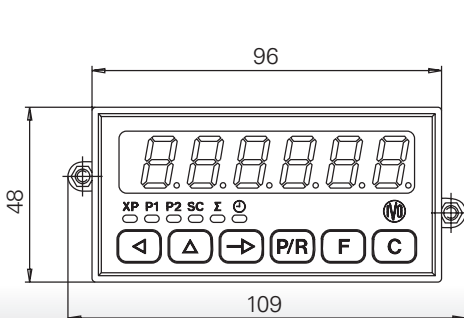
## Pin assignments for interface applications



## Pin assignment



## Dimensions



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