

Preset counters electronic

2 presets, DIN rail housing

Display LED, 6-digits, programmable

NE230



NE230 - LED Preset counter

Features

- Preset counter with two presets
- Display 6-digits
- Housing for control cabinet installation
- Totalizer, hour counter
- Operating mode, start count, scaling factor programmable
- Connection: Incremental encoder or digital sensors
- Preset mode programmable
- Interface RS232 or RS422/RS485

Technical data - electrical ratings

Voltage supply	14...28 VAC (50/60 Hz) 85...265 VAC (50/60 Hz) 10...30 VDC
Power consumption	5 VA, 4 W
Sensor supply	18 VDC \pm 15 % / 100 mA
Display	LED, 7-segment display
Number of digits	6-digits
Digit height	7.6 mm
Function	Preset counter, Main counter with 2 presets, Totalizer, Hour counter
Scaling factor	0.0001...9999.99
Count modes	Adding or subtracting Difference counting A-B Total (parallel) A+B Up/Down A 90° B phase evaluation
Counting frequency	3 Hz, 25 Hz, 10 kHz programmable
Preset	2 presets
Operating modes	Step preset, Main preset, Parallel alignment, Trailing preset
Data memory	>10 years in EEPROM
Reset	Button, electric or automatic
Keylock	Yes, electric (keylock)
Outputs relay	Normally open or closed, programmable
Output holding time	0.01...99.99 s
Interfaces	RS232, RS422, RS485
Standard DIN EN 61010-1	Protection class II Overvoltage category II Pollution degree 2
Emitted interference	DIN EN 61000-6-3
Interference immunity	DIN EN 61000-6-2

Technical data - electrical ratings

Programmable parameters	Operating modes Sensor logic Scaling factor Count mode Control inputs
Approval	UL approval / E63076

Technical data - mechanical design

Ambient temperature	0...+50 °C
Storage temperature	-20...+70 °C
Relative humidity	80 % non-condensing
Connection	Plug-in screw terminal connector Connector D-SUB, female, 9-pin (interface)
Core cross-section	1.5 mm ²
Protection DIN EN 60529	IP 50 (face DIN 0470-1)
Operation / keypad	Membrane with softkeys
Housing type	Surface mount housing
Dimensions W x H x L	70 x 89 x 58 mm
Mounting depth	58 mm
Mounting	DIN rail housing EN 50022
Weight approx.	300 g
Materials	Housing: GFV Polycarbonat Rear: PPO Keypad: Polyester

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Part number

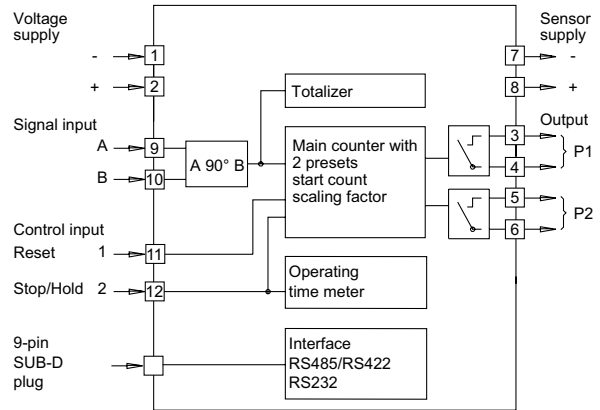
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Voltage supply
 2 85...265 VAC
 3 14...28 VAC / 10...30 VDC

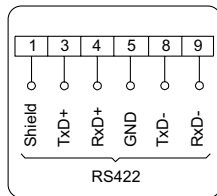
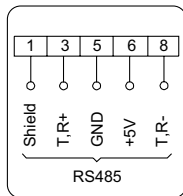
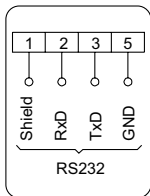
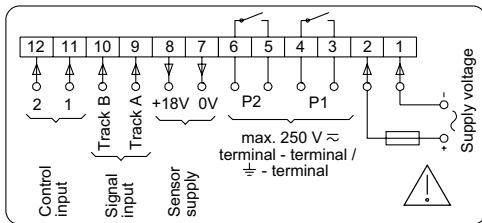
Outputs
 1 Relay outputs

Interface
 0 Without interface
 1 RS422 / RS485
 2 RS232

Block circuit diagram



Connection diagram



Trigger level

Comparator inputs	Input circuit
Inputs	PNP- / NPN-logic
Input level	Programmable
Input level Low	0...2 VDC
Input level High	3...40 VDC
Input resistance	3 kΩ

Relay outputs	Output circuit
Switching voltage max.	250 VAC / 110 VDC
Switching current max.	1 A
Switching capacity max.	150 VA / 30 W
Relay responding time	5 ms

Dimensions

