

# Preset counters electronic

## 2 presets, totalizer and batch counter

### Display LED, 5-digits, programmable



RAD ELECTRIC Int.  
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## NE216



NE216 - LED Preset counter

### Features

- Preset counter with two presets
- Display 5-digits
- Totalizer, hour counter
- Operating mode, start count, scaling factor programmable
- Connection: Incremental encoder or digital sensors
- Step and trailing preset programmable
- Interface RS485

### Technical data - electrical ratings

Voltage supply	85...265 VAC (50/60 Hz) 12...30 VDC
Power consumption	5 VA, 5 W
Sensor supply	85...265 VAC: 24 VDC ±20 %/100 mA 12...30 VDC: 9-28 VDC/100 mA
Display	LED, 7-segment display
Number of digits	5-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, Trailing preset, Time meter and hour counter
Data memory	>10 years in EEPROM
Reset	Button, electric or automatic
Outputs electronic	Optocoupler
Outputs relay	Normally open or closed, programmable
Output holding time	0.01...99.99 s
Interface	RS485
Standard DIN EN 61010-1	Protection class II Overvoltage category II Pollution degree 2
Emitted interference	DIN EN 61000-6-4
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
Core cross-section	1.5 mm <sup>2</sup>
Protection DIN EN 60529	IP 65 (face with seal)
Operation / keypad	Membrane with softkeys
Housing type	Built-in housing
Dimensions W x H x L	48 x 48 x 100 mm
Mounting depth	100 mm
Mounting type	Clip frame for built-in housing
Cutout dimensions	45 x 45 mm (+0.6)
Weight approx.	150 g (12-30 VDC/85-265 VAC), 250 g (24/48 VAC)
Materials	Housing: Makrolon 6485 (PC) Keypad: Polyester



#### Part number

NE216.    **AX01**

- Voltage supply
- 2 85...265 VAC
  - 3 12...30 VDC
- Outputs
- 1 Relay outputs
  - 2 Electronic outputs
- Interface
- 0 Without interface
  - 1 RS485

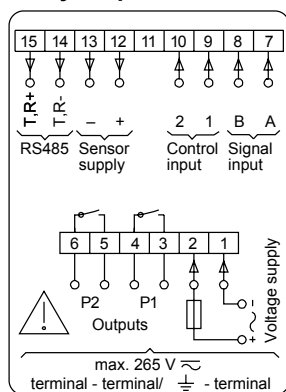
#### Accessories

##### Adaptor plates

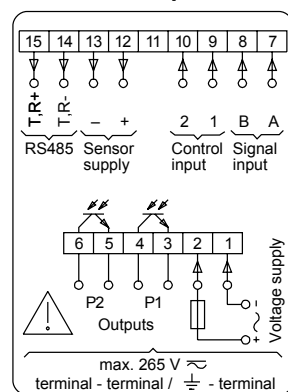
- 10127669 Adaptor plate for screw mount, face 60 x 75 mm (Z 118.033)
- 10132410 Adaptor plate for clip frame mount, face 53.2 x 53.2 mm (Z 118.034)
- 10133941 Adaptor plate for clip frame mount, face 60 x 75 mm (Z 118.035)

#### Connection diagram

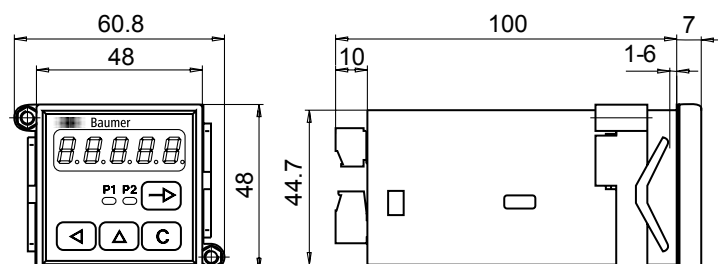
##### Relay outputs



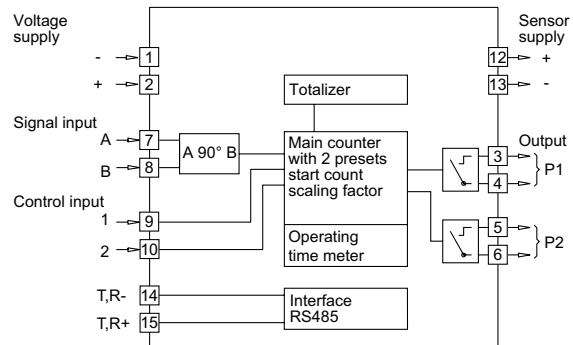
##### Electronic outputs



#### Dimensions



#### Block circuit diagram



#### Trigger level

##### Comparator inputs

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

##### Relay outputs

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

##### Electronical outputs

Electronical outputs	Output circuit
Switching voltage max.	Optocoupler short-circuit proof
Switching current max.	40 V
Residual voltage	25 mA
Residual voltage	<1 V