

Preset counters electronic

2 presets, serial interfaces

Large 14 mm display LED, 6-digits, programmable

NE214



NE214 - LED Preset counter

Technical data - electrical ratings

| | |
|---------------------------|--|
| Voltage supply | 115/230 VAC $\pm 10\%$ (50/60 Hz) 24/48 VAC $\pm 10\%$ (50/60 Hz) 24 VDC $\pm 10\%$ |
| Power consumption | 7 VA, 5 W |
| Sensor supply | 12...26 VDC / max. 100 mA |
| Display | LED, 7-segment display |
| Number of digits | 6-digits |
| Digit height | 14 mm |
| Function | Preset counter Main counter with 2 presets Batch counter with 1 preset Totalizer Hour counter |
| Scaling factor | 0.0001...9999.99 |
| Multplier / batch counter | 1...999 |
| Count modes | Adding or subtracting A-B (difference counting) A+B total (parallel counting) Up/Down A 90° B phase evaluation |
| Counting frequency | 3 Hz, 25 Hz, 10 kHz programmable |
| Operating modes | Step preset, Main preset, Parallel alignment, Trailing preset |
| Data memory | >10 years in EEPROM |
| Reset | Button, electric or automatic |
| Outputs electronic | Optocoupler |
| Outputs relay | Potential-free change-over contact |
| Output holding time | 0.01...99.99 s |
| Analogue output | 0(2)...10 V, 0(4)...20 mA |
| Interfaces | RS232, RS422, RS485 |

Features

- Preset counter with two presets
- Display 6-digits
- Batch counter, totalizer, hour counter
- Operating mode, start count, scaling factor, momentary signal time programmable
- Connection: Incremental encoder or digital sensors
- Batch counter with multiplier
- Preset mode programmable
- Interface RS232, RS422 or RS485

Technical data - electrical ratings

| | |
|-------------------------|---|
| Standard | Protection class II |
| DIN EN 61010-1 | Overvoltage category II |
| | Pollution degree 2 |
| Emitted interference | DIN EN 61000-6-3 |
| Interference immunity | DIN EN 61000-6-2 |
| Programmable parameters | Operating modes Sensor logic Scaling factor Count mode Control inputs |
| Approvals | UL/cUL, CE conform |

Technical data - mechanical design

| | |
|-------------------------|--|
| Operating temperature | 0...+50 °C |
| Storing temperature | -20...+70 °C |
| Relative humidity | 80 % non-condensing |
| E-connection | Plug-in screw terminals |
| Core cross-section | 1.5 mm ² |
| 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 | 96 x 48 x 124 mm |
| Installation depth | 124 mm |
| Mounting | Clip frame |
| Cutout dimensions | 92 x 45 mm (+0.6) |
| Materials | Housing: Makrolon 6485 (PC) Keypad: Polyester |
| Weight approx. | 350 g (AC), 250 g (DC) |

Preset counters electronic

2 presets, serial interfaces

Large 14 mm display LED, 6-digits, programmable

NE214

Part number

NE214. **AX01**

Voltage supply

- 1 24 / 48 VAC
- 2 115 / 230 VAC
- 3 12...30 VDC

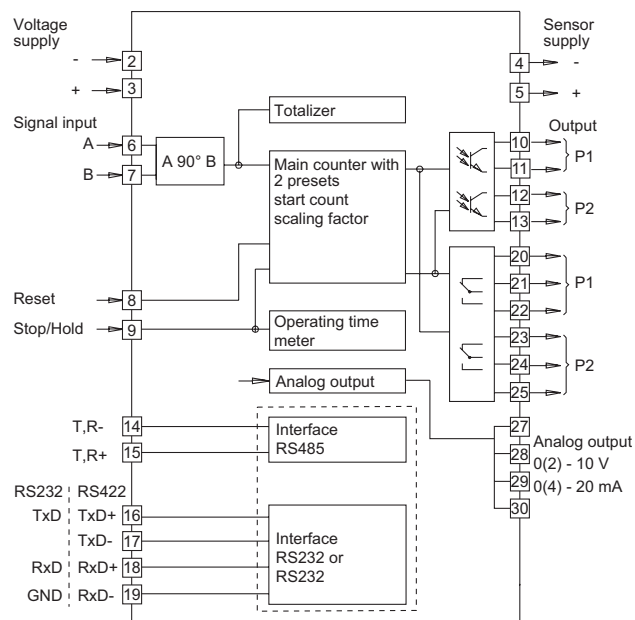
Outputs

- 0 Without relay
- 1 Relay outputs
- 2 Relay and optocoupler outputs / analogue output

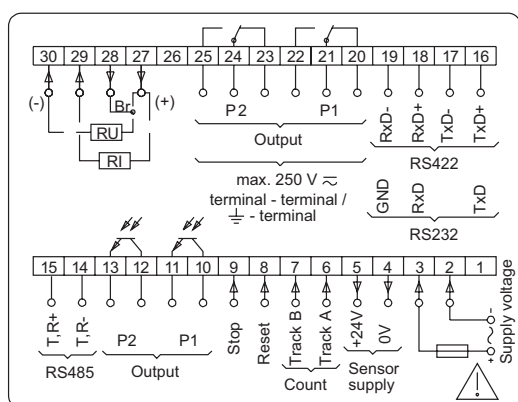
Interface

- 0 Without interface
- 1 RS485
- 2 RS422
- 3 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 k Ω |

| 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 | Output circuit |
|------------------------|---------------------------------|
| | Optocoupler short-circuit proof |
| Switching voltage max. | 40 V |
| Switching current max. | 15 mA |
| Residual voltage | <1 V |

Dimensions

