Electrical Preset Counter with 2 Presets

NE216

Features

Models	LED-preset counter with 2 presets Totalizer, Time Meter
Connection	Incremental encoder One-channel, digital sensor 2 one-channel, digital sensors for difference counting
Functions	Programmable time meter with 2 presets Start count programmable Scaling factor programmable 0.0001...999.99 Interface RS485 Programmable preset mode: - Step preset - Drag preset

Order designation

Order no.	Interface
0	Without Interface
1	RS485
	Outputs
1	With relay
2	Electric outputs
	Supply voltage
1	24 / 48 VAC
2	115 / 230 VAC
3	12...30 VDC

NE216. ☐ ☐ ☐ **AX01**

Mechanical data

Display	7-segment LED-display 5-digit display of real value, 7.6 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 48 x 48 mm
Mounting	Front panel with clip frame
Weight	AC: approx. 260 g DC: approx. 140 g
Connection	Plug-in screw terminals Grid 5.08 mm / 3.81 mm
Core cross-section	Max. 1.5 mm²
Housing material	Macrolon 6485 (PC) black, UL 94V-0
Keypad membrane material	Polyester

Ambient conditions

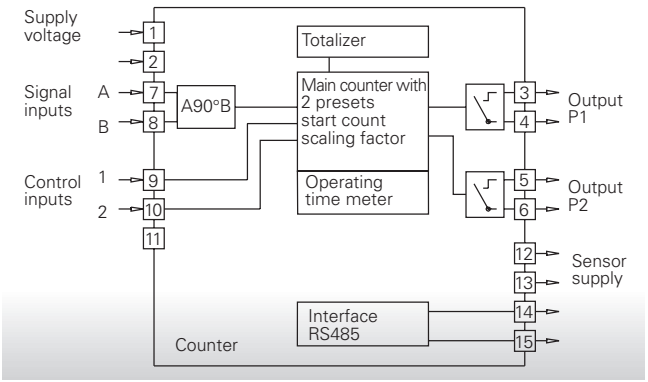
Ambient temperature	0...+50 °C
Storage temperature	-20...+70 °C
Relative humudity	Max. relative humidity 80 %, at 25 °C, non-condensing
Protection	Front IP 65 to DIN 40050
General rating	EN 61010 Part 1 - Protection standard II - Overvolt. protection categ. II - Contamination factor 2
Interference immunity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

Accessories

Order no.	
Z 100.02A	Flexible transp. protective cover for 1 counter
Z 100.04A	Flexible transp. protective cover for 2 counters
Z 118.033	Adapter plate for screw mounting
Z 118.034	Adapter plate for clips mounting
Z 118.035	Adapter plate for clips mounting with big front panel

NE216

Block diagram

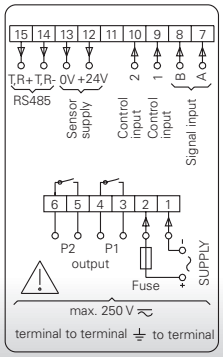


Counting mode of signal inputs A / B

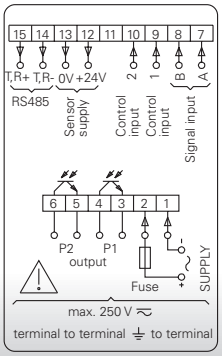
– Up/Down
– Difference, A - B
– Total, A + B
– Phase, A 90° B x1
– Phase, A 90° B x2
– Phase, A 90° B x4

Pin assignments

with relay outputs



with electronic outputs



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) 12...30 VDC ±10 %, 5 % residual ripple
Power consumption	5 VA, 4 W
Sensor supply	12...26 VDC / 60 mA
Signal inputs	Comparator inputs PNP-, NPN- or AC-logic Voltage level 4...40 V Input resistance ca. 3 kOhm
Input counting rate	3 Hz, 25 Hz, 10 kHz programmed
Control inputs	2 control inputs for reset, stop, hold, print, etc.
Signal outputs	Programmabel as momentary or permanent signals; Impulse time can be programmed 0.01...99.99 s
Relay signal outputs	2 floating relays can be programmed as normally open or normally closed contacts Internal spark quenching Max. swit. voltage 250 VAC/110 VDC Max. switching power 1 A Max. switch. capacity 150 VA/30W
Electronic outputs	Optocoupler outputs Max. switching voltage +40 V Max. switching power 25 mA Max. residual voltage <1 V
Data storage	> 10 years via EEPROM
Reset	Manually, electrically or automatically
Operation modes	To be programmed as adding or subtracting

Dimensions