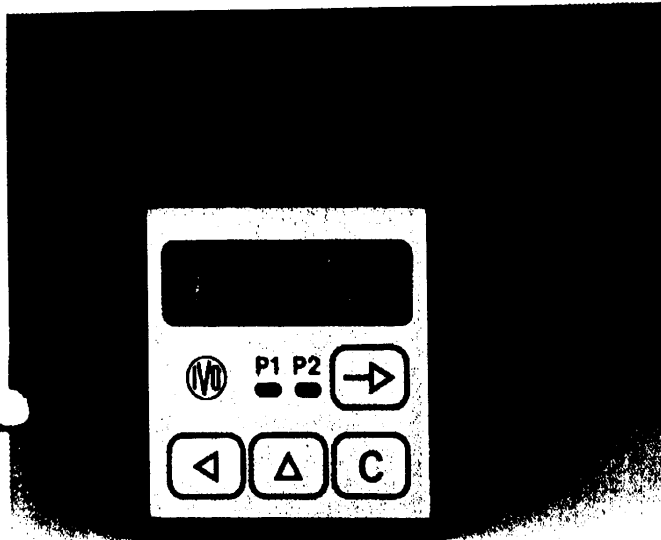


Electronic preselection counter with two presets



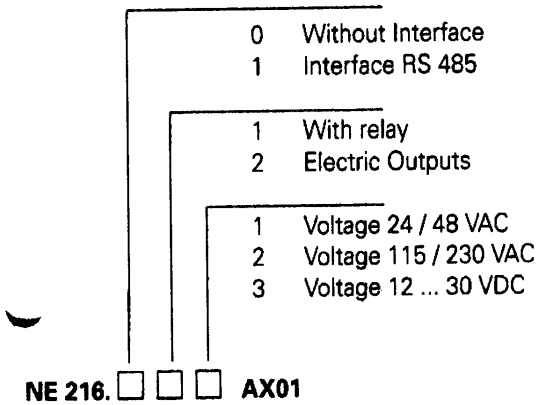
NE 216



Characteristics of device

Technology	μP - device
Model	Multifunctional device that can be programmed as: Batch counter Operating time meter
Functions	Main counter with two presets 8-digit totalizer Start value can be programmed Scaling factor can be programmed from 0.0001 to 999.99 Interface RS 485

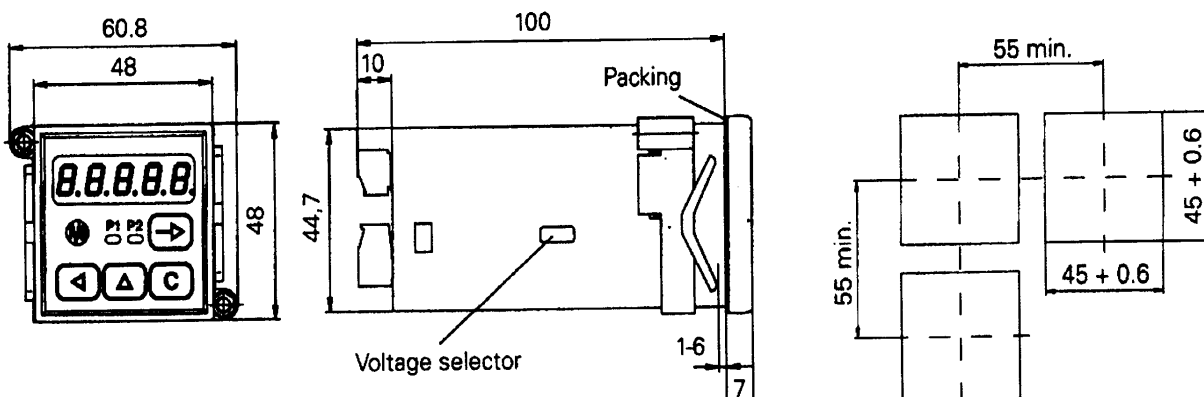
Order designation



Mechanical data

Display	7-segment LED 5-digit display of real value, 7.6 mm high Decimal point can be programmed Suppression of leading zero Minus sign for negative values
Operation, keypad	Front membrane with short-stroke keys
Front dimensions	DIN housing 48 x 48 mm
Mounting	Front installation
Fastening	Clamping frame
Weight	Version AC: ca. 260 g Version DC: ca. 140 g
Type of connection	Plug-in screw terminals Grid 5.08 mm / 3.81 mm
Core cross-section	Max. 1.5 mm ²
Housing material	Polycarbonate black, UL 94V - 0
Membrane material	Polyester

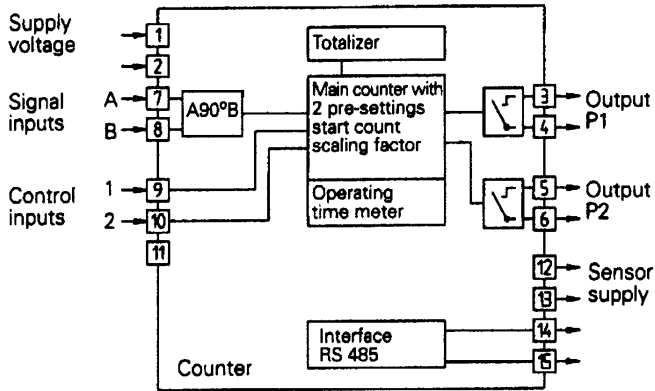
Dimensions and cutout size





NE 216

Block diagram



Electrical data

Supply voltage	Choice of two voltages via switch on device. When supplied, always higher voltage adjusted. 115 / 230 VAC ± 10 % (50 / 60 Hz) 24 / 48 VAC ± 10 % (50 / 60 Hz) 12 ... 30 VDC, 5 % residual ripple
Power consumption	5 VA, 4 W
Sensor supply	12 ... 26 VDC / 60 mA
Signal inputs	Comparator inputs PNP, NPN oder AC logic Voltage level 4 V ... 40 V Input resistance ca. 3 kOhm
Input counting rate	Can be programmed to 3 Hz, 25 Hz, 10 kHz
Control inputs	2 control inputs for reset, stop, hold, print, etc.
Signal outputs	Can be programmed as momentary or permanent signals Impulse time can be programmed from 0.01 bis 99.99 s
Relay signal outputs	2 floating relays can be programmed as normally open or normally closed contacts Internal spark suppression Max. switching voltage 250 VAC / 110 VDC Max. switching power 1 A Max. switching capacity 150 VA / 30 W
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
Operation modes	To be programmed as adding or subtracting

Counting mode of signal inputs A / B

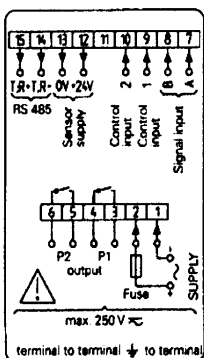
UP / DOWN, A - B, A + B, A 90° B x1, A 90° B x2, A 90° B x4

Ambient conditions

Ambient temperature	0 °C ... + 50 °C
Storage temperature	- 20 °C ... + 70 °C
Relative humidity	Max. rel. humidity 80 %, at 25 °C, non-condensing
Protection	Front IP 65 to DIN 40050
Operational requirements	To contamination factor 2
Classification	According to EN 61 010 Category II
Interference immunity	EN 50 082 - 2 Severity grade 2 - 3
Emitted interference	EN 50 081 - 2
General rating	EN 61 010
Oversvoltage protection	II

Pin assignments

with relay outputs



with electronic outputs

