



Multifunctional counter

DIN-rail



► Features

- 2 count inputs and 6 counting modes
- 2 presets with relay outputs
- RS232 and RS485 interfaces
- Optional scaling of counting signals
- Incremental Encoder connection

► Idea

Multifunctional counter as decentralized unit in DIN rail housing

► Solution

NE230 – quick installation, little space required for DIN rail



Multifunctional counter in DIN-rail

With 2 presets



Order designation

Order no.	Interface
0	Without interface
1	RS485
2	RS232
Outputs	
1	With relay
Voltage	
2	85...265 VAC
3	10...30 VAC/VDC

NE230. ☐ ☐ ☐ AX01

Ambient conditions

Environment temperature	0...+50 °C
Warehouse temperature	-20...+70 °C
Relative humidity	Max. relative humidity 80 %, at 25 °C, non-condensing
Protection class	Front IP 50 according to DIN VDE 0470-1
General rating	EN 61010 part 1 - Protection class II - Overvoltage protection categ. II - Contamination factor 2
Interference immunity	EN 61000-6-2
Emitted interference	EN 50081-1

Electrical data

Supply Voltage	85...265 VAC (50 / 60 Hz) 10...30 VAC / VDC (50 / 60 Hz)
Power consumption	5 VA, 4 W
Sensor supply	85...265 VAC: 18 VDC $\pm$ 15% / 100 mA 10...30 VAC: 9...40 VDC / 100 mA 10...30 VDC: 8...28 VDC / 100 mA
Signal inputs	2 comparator inputs Voltage level 4...40 V Input resistance approx. 3 kOhm
Input frequency	3 Hz, 25 Hz, 10 kHz programmable
Control inputs	2 control inputs for reset, stop, hold, print, etc. Input resistance approx. 3 kOhm
Signal outputs	Programmable as latch or permanent signals Latch time 0.01...99.99 s programmable
Relay signal outputs	2 floating relays can be programmed as normally open or closed Max. switch voltage 250 VAC/110 VDC Max. switch current 1 A Max. switch power 150 VA/30 W
Data storage	> 10 years by EEPROM
Operation modes	Programmable as adding or subtracting

Mechanical data

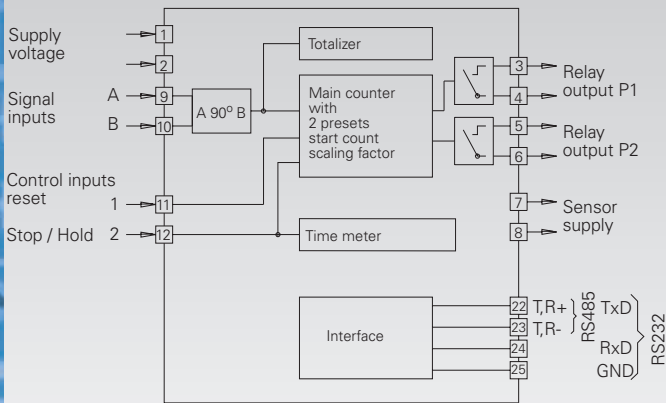
Display	7-segment LED-display 6-digit display of real values, 7.6 mm high Decimal point can be programmed Suppression of leading zero
Operation, keyboard	Front membrane keyboard with short-stroke keys
Front dimensions	DIN housing 70 x 86 mm
Mounting	On DIN rail EN 50022
Weight	Approx. 300 g
Connection	Plug-in screw terminals 5.00 mm / 3.81 mm
Core cross-section	Max. 1.5 mm ²
Housing material	
upper part	Polycarbonate, UL 94V-1
lower part	Polyphenylenoxid UL 94V-0
Membrane material	Polyester

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with 2 presets



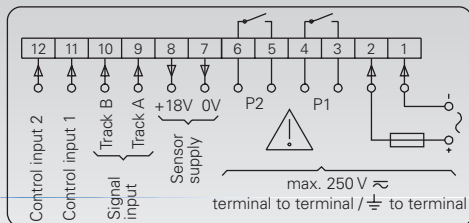
Block diagram



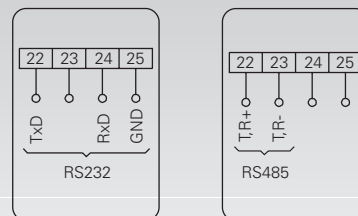
Counting mode of signal inputs A / B

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

Pin assignment



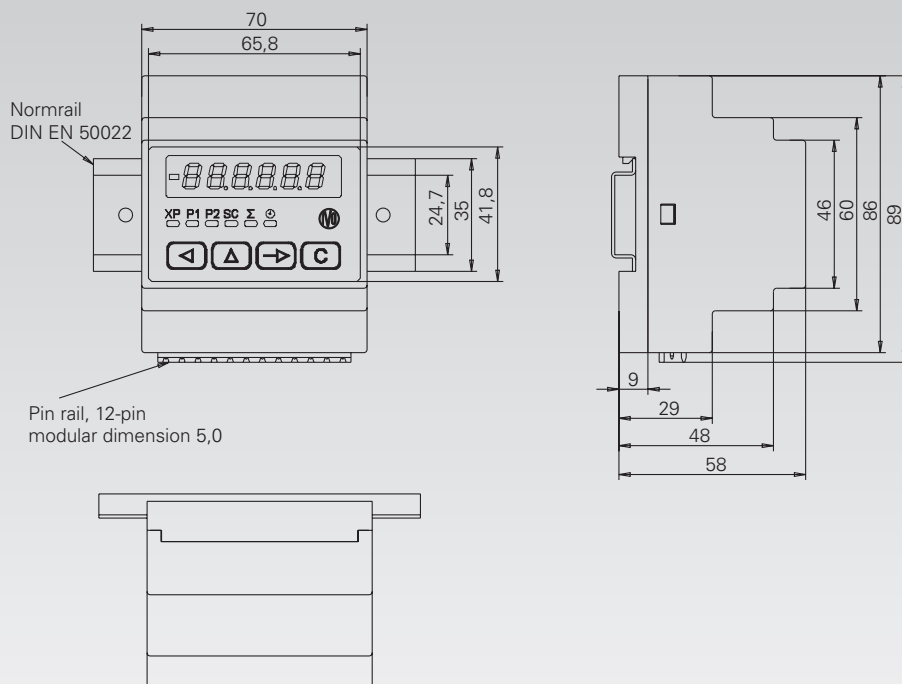
Pin assignments for interfaces models



Multifunctional counter in DIN rail with 2 presets



Dimensions and cutout size



Fax request

Send us further information about:

- ☐ Counters, controllers and process displays
- ☐ Mechanical and electro-mechanical counters
- ☐ Absolute and incremental encoders

- ☐ Counseling desired
- ☐ Please call us

- ☐ Please send us an offer for

- ☐ Other wishes and suggestions

Sender

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