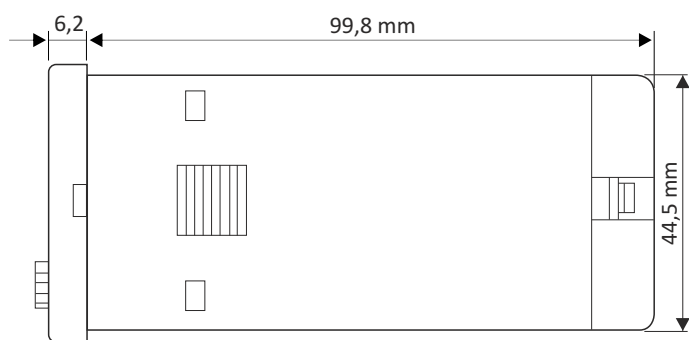# SLN-44

- ■ universal pulse counter
- ■ counting input: contact / OC / voltage
- ■ add, subtract, add/subtract or quadrature mode
- ■ 1 or 2 REL
- ■ front panel reset, remote reset, auto-reset
- ■ STN display with backlight
- ■ small panel size DIN 48 x 48 mm

The **SLN-44** series is a DIN 48 x 48 electronic preset counter with a Blue STN LCD display with white backlight. The display is 6 digits dual layer, divided into Main display and Sub-display. The main display has a 10 x 5 mm figure size showing the count value and the Sub-display shows the preset values. Included in the display are Preset level indicators and Output indicators which can be toggled by a push of a button. The **SLN-44** series is available in 1 or 2 level preset or 1 level + Prewarn type which makes it an ideal counter for general counting or total/batching counting applications. It is 100-240V AC or 12-24V DC powered and has an external power supply of 12V DC for sensors. The **SLN-44** can count bidirectional (Quadrature), Add, Subtract or Add/Subtract and upon reaching the preset value/s, the built-in output relays are actuated. It has a built-in EEPROM memory to avoid loss of count during sudden power cut. This makes the **SLN-44** Series the most versatile and functional preset counter even for the complicated applications such as packaging (batching), converting (prescale), cut-to-length (preset+prewarn) and many more.
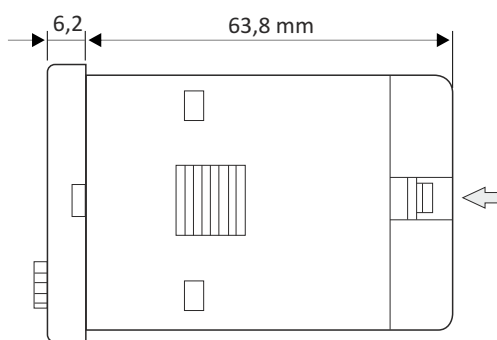
■ TECHNICAL DATA

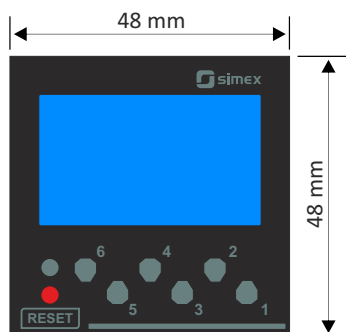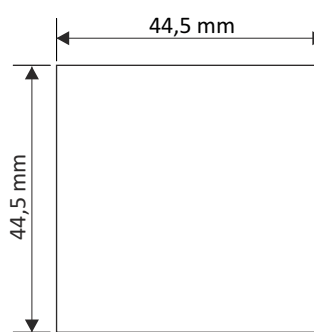|	
Power supply **Power consumption**	12 - 24V DC -15%, +10% or 100 - 240V AC -15%, +10% 2,5 W for 24V DC; 7 VA for 240V AC
Display	Blue STN LCD with white backlight; 6 digits, size of digits 10 mm x 5 mm
Inputs	counting, pulse: open collector (sink current approx. 11 mA), input levels: low 0-4V voltage (input impedance 7 kΩ), input levels: low 0-4V, high 6-30V (available to duplex wire DC sensor)
Reset	front panel reset, remote reset (2 ms or 20 ms, selectable), auto-reset
Displayed values range	-99999 - 999999, decimal point position: 0.0, 0.00, 0.000 or no decimal point
Outputs	1 or 2 relays 250V AC 5A / 30V DC max. 5A
Sensor supply	12V DC / 100 mA (available only with 2 relays)
Count speed	30Hz, 1kHz, 5kHz, 10kHz (selectable)
Output delay	30Hz - 17 ms; 1kHz/5kHz/10kHz - 12 ms
Prescale	0.001 - 99.999 (0 setting is not available)
Memory	EEPROM type, 10 years, can be used about 10000 times
Operating temperature	-10°C ÷ +50°C
Humidity	45 ÷ 85% RH (non-condensing)
Protection class	IP 54 (panel surface)
Case	panel mounting
Dimensions	case (WxHxD): 48 x 48 x 64 mm (DC supply), 48 x 48 x 100 mm (AC supply) panel cut-out dimensions: 44,5 x 44,5 mm
Weight	approx. 120 g (DC supply), approx.160 g (AC supply)

SIMEX Ltd., Wielopole 11, 80-556 Gdańsk, Poland, tel. (+48) 58 762-07-77, fax 58 762-07-70, www.simex.pl

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SLN-44.1

DIMENSIONS

6,2 | 99,8 mm | 44,5 mm

Side view - AC version

6,2 | 63,8 mm

Side view - DC version

48 mm | 48 mm

Case dimensions

44,5 mm | 44,5 mm

Panel cut-out dimensions

EXAMPLARY PIN ASSIGNMENT

IN A | IN B | GND | RES
1 | 2 | 3 | 4 | 5

11 | 12
K/P

6 | 7 | 8 | 9 | 10
NC | NO | COM
REL

+ | -
12-24VDC

version with 1 x REL

IN A | IN B | 12V | GND | RES
1 | 2 | 3 | 4 | 5

NO | 11 | 12 | COM

6 | 7 | 8 | 9 | 10
NC | NO | COM
REL 2 | **100-240VAC**

REL 1
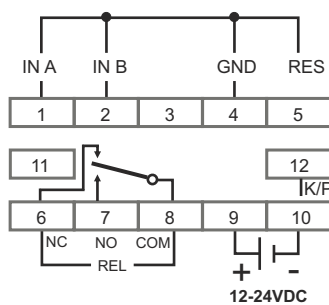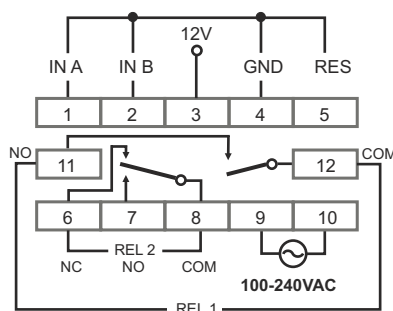
version with 2 x REL

INPUTS ASSIGNMENT

add
sub
1 | 2 | 4
IN A | IN B | GND

contact Input

Double Pulse Sensor
1 | 2 | 3 | 4
IN A | IN B | 12V | GND
*
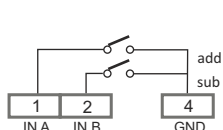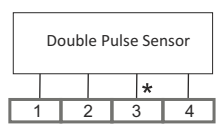
For DC powered models, use terminal 9 instead of terminal 3

quadrature Input

add
sub
1 | 2 | 4
IN A | IN B | GND
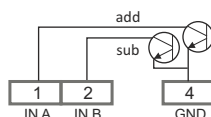
open collector input

add
sub
1 | 2 | 4
IN A | IN B | GND

voltage input

4 | 5
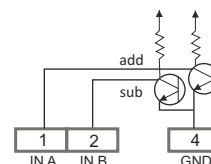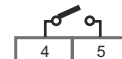
reset

ORDERING

SLN-44-1511-0-3-001: 1 relay, DC power supply
SLN-44-1521-0-4-001: 2 relays, AC power supply

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SLN-44.2