

SLN-44

- ▣ universal pulse counters
- ▣ contact input / OC / voltage
- ▣ Add, Subtract or Add/Subtract
(individual input, 90° quadrature input)
- ▣ 1 or 2 relays
- ▣ front panel reset, remote reset, auto-reset



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.

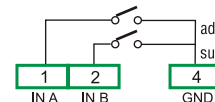
The **SLN-44** series is available in 1 or 2 level preset or 1 level + Prewarn type which makes it an ideal counter for general counting or total/batching counting applications. It is 100-240V AC or 12-24V DC powered and has an external power supply of 12V DC for sensors. The **SLN-44** can count bidirectional (Quadrature), Add, Subtract or Add/Subtract and upon reaching the preset value/s, the built-in output relays are actuated.

Functional modes, Operation modes and Output modes are fully programmable with the menu driven display using the front panel buttons. It has a built-in EEPROM memory to avoid loss of count during sudden power cut.

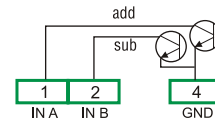
This makes the **SLN-44** Series the most versatile and functional preset counter even for the complicated applications such as packaging (batching), converting (prescale), cut-to-length (preset+prewarn) and many more.

Inputs assignment

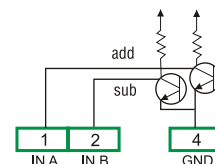
1) Contact Input



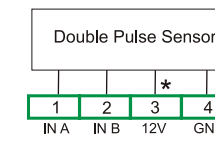
2) Open collector Input



3) Voltage Input

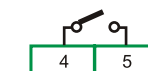


4) Quadrature Input

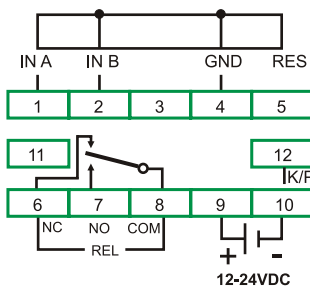


*For DC Powered models, use terminal 9 instead of terminal 3

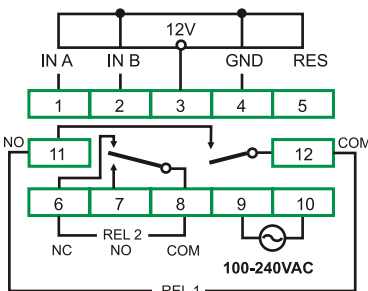
4) Reset



Exemplary pin assignment



counter with 1 relay



counter with 2 relays

Ordering

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

Technical data

Power supply: 12 - 24V DC -15%, +10% or 100 - 240V AC -15%, +10%

Power consumption: 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

Setting range: -99999 - 999999, decimal point position: 0.0, 0.00, 0.000 or no decimal point

Inputs:

- 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

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

Case dimensions: 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)