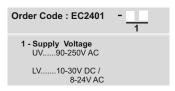


Read this document carefully before using this device. The guarantee will be expired by damaging of the device if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

## **ENDA EC2401 UP / DOWN COUNTER**

Thank you for choosing **ENDA EC2401** Up / Down Counter devices.

- ▶ 35x77 Sized.
- Easy to use.
- Input frequency selection.
- Selectable parameter security...
- CE Marked according to European Norms.



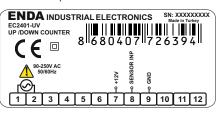




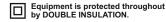
**R**<sub>N</sub>HS Compliant



ENDA EC2401 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The electrical connections must be carried out by a qualified staff and must be according to the relevant locally applicable regulations. During an installation, all of the cables that are connected to the device must be free of electrical power. The device must be protected against inadmissible humidity, vibrations, severe soiling and make sure that the operation temperature is not exceeded. The cables should not be close to the power cables or components.

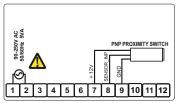


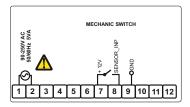






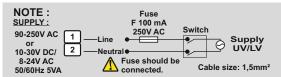
#### **CONNECTION SAMPLES**





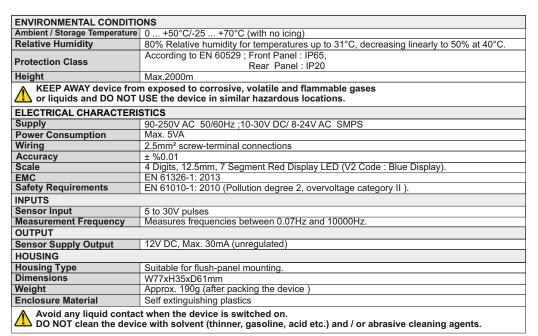


The NPN PROXIMITY SWITCH connection is applicable as same as PNP PROXIMITY SWITCH.



#### ⚠ Note:

- 1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.
- 2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrurment and it should be easily accessible by the operator.



change

þe

23.11.2022,

Jp to date:

1. / 2

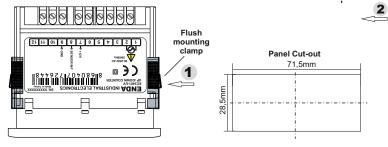
DIMENSIONS

# 77mm



### To removing mounting clamps:

- Push the flush-mounting clamps in direction 1 as shown in the figure.
- And, pull out the clamp in direction 2



### clamp Note: 1) Panel thickness should

Flush

mounting

Depth

61mm

be maximum 7mm. 2) If there is no 60mm free space at the back side of

Rubber

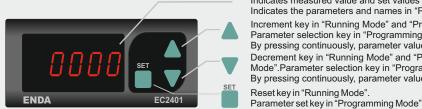
packing

the device, it would be difficult to remove it from the panel.

**SURAN** Industrieelektronik An der Hanfrötze 6 / D-77731 Willstätt

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EC2401-EN-23112022



Indicates measured value and set values in "Running Mode". Indicates the parameters and names in "Programming Mode". Increment key in "Running Mode" and "Programming Mode". Parameter selection key in "Programming Mode". By pressing continuously, parameter value increases rapidly. Decrement key in "Running Mode" and "Programming Mode". Parameter selection key in "Programming Mode". By pressing continuously, parameter value decreases rapidly. Reset key in "Running Mode".

#### 1.Programming Mode

Measurement By pressing keys together for 2 seconds, "Programming Mode" is enterd. 0.000

## 2. Changing the Parameter Values



While "Programming Mode", by pressing to key for 2 seconds, the parameter value displayed and can be changed by using Vanavigation keys. If no operation is performed for 3 seconds or by pressing to key, the current parameter name will be displayed. If wkeys are pressed during the parameter name displayed, "Running Mode" will be entered.

#### 3.Using the Keypads.

Provides access to the next parameter in "Programming Mode and increases the selected parameter value". If pressed continuously, the parameter value increases rapidly.

Provides access to the previous parameter in "Programming Mode and decreases the selected parameter value". If pressed continuously, the parameter value decreases rapidly.

Provides to reset the counter value in "Running Mode".
Provides to set the selected parameter value in "Programming Mode".



If the Counter (EMBB) mode set to (UP), the Counter value increments by counting up to the value of the (UP) parameter. If the Counter (CMBD) mode set to (BB), the Counter value decrements by counting up to the value of the (BB) parameter. If the counter value is less than the value of the (Bil) parameter, the counter value will be synchronized to the value of the (Bil) parameter.

DEVICE PARAMETERS					
Parameter Name	Description	Min.	Max.	Unit	Default Value
FREO	Input frequency selection. 0 = 50Hz, 1 = 100Hz, 2 = 500Hz, 3= 1KHz, 4 = 5KHz, 5 = 10KHz	0	5		0
cmoo	Counting direction parameter. UP = Up, DR = Down	DN	UP		UP
UP	Up direction counting.	0	9999		1000
DN	Down direction counting.	0	9999		1000

**SURAN** Industrieelektronik Tel.: +49 (0)7852 / 4889 962 E-mail: info@suran-elektronik.de Internet: www.suran-elektronik.de An der Hanfrötze 6 / D-77731 Willstätt EC2401-EN-23112022