

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.



8-24V AC

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





Note :

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



A 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 instrument and it should be easily accessible by the operator.

ENVIRONMENTAL CONDITIONS					
	0 +50°C/-25 +70°C (with no icing)				
Relative Humidity	80% Relative humidity for temperatures up to 31°C, decreasing linearly to 50% at 40°C.				
Protection Class	According to EN 60529 ; Front Panel : IP65,				
	Rear Panel : IP20				
Height	Max.2000m				
KEEP AWAY device from or liquids and DO NOT	n exposed to corrosive, volatile and flammable gases USE the device in similar hazardous locations.				
ELECTRICAL CHARACTERI					
Supply	90-250V AC 50/60Hz ;10-30V DC/ 8-24V AC SMPS				
Power Consumption	Max. 5VA				
Wiring	2.5mm ² screw-terminal connections				
Accuracy	± %0.01				
Scale	4 Digits, 12.5mm, 7 Segment Red Display LED (V2 Code : Blue Display).				
EMC	EN 61326-1: 2013				
Safety Requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II).				
INPUTS					
Sensor Input	5 to 30V pulses				
Measurement Frequency	Measures frequencies between 0.07Hz and 10000Hz.				
OUTPUT					
Sensor Supply Output	12V DC, Max. 30mA (unregulated)				
HOUSING					
Housing Type	Suitable for flush-panel mounting.				
Dimensions	W77xH35xD61mm				
Weight	Approx. 190g (after packing the device)				
Enclosure Material	Self extinguishing plastics				
A Avoid any liquid contac	t when the device is switched on.				

Avoid any liquid contact when the device is switched on.

DO NOT clean the device with solvent (thinner, gasoline, acid etc.) and / or abrasive cleaning agents.

DIMENSIONS







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". By pressing continuously, parameter value decreases rapidly. Reset key in "Running Mode". Parameter set key in "Programming Mode".							
1.Programming Mode							
By pressing Keys together for 2 seconds, "Programming Mode" is enterd.							
2.Changing the Parameter Values							
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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 $(\underline{L} \ \overline{n} \ a d)$ mode set to (\underline{u}^{P}) , the Counter value increments by counting up to the value of the (\underline{u}^{P}) parameter. If the Counter $(\underline{L} \ \overline{n} \ a d)$ mode set to $(\underline{d} \ n)$, the Counter value decrements by counting up to the value of the $(\underline{d} \ n)$ parameter. If the counter value is less than the value of the $(\underline{d} \ n)$ parameter, the counter value will be synchronized to the value of the $(\underline{d} \ n)$ parameter.							
DEVICE PARAMETERS							
Parameter Name			Max.	Unit	Default Value		
FrE9	Eq Input frequency selection.		5		0		
Eñod	0 = 50Hz, $1 = 100$ Hz, $2 = 500$ Hz, $3 = 1$ KHz, $4 = 5$ KHz, $5 = 10$ KHz $d = 0$ Counting direction parameter. $u^{P} = Up$, $dn = Down$		υP		υP		
υP					1000		
dn	Down direction counting.				1000		



