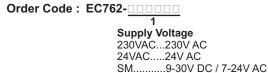


Read this document carefully before using this device. The guarantee will be expired by damaging of the device if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

ENDA EC762 UP/DOWN COUNTER

Thank you for choosing ENDA EC762 COUNTER.

- * 72x72mm sized.
- * 2x6 digits display.
- * Easy to use by front panel keypad.
- * Counting up and down with a 2 channel inputs having 90° phase shift.
- * Input frequency can be selectable.
- * Prescaler factor can be adjusted between 0.001 and 9.99999.
- * Decimal point can be adjusted between 1. and 5. digits.
- * Sensor type can be selected as PNP, NPN or Encoder.
- * Single set-points control is made by a relay outputs.
- * Output can be energized continuously or just for a time interval of 0.1 to 999.9 seconds.
- * Selectable functional reset input.
- * Input offset feature.
- * Parameter access protection on 3 levels.
- * Easy connection by removable screw terminal.
- * CE marked according to European Norms.

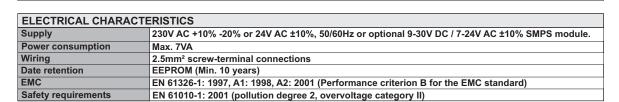






TECHNICAL SPECIFICATIONS

ENVIRONMENTAL CONDITIONS				
Ambient/storage temperature	0 +50°C/-25 +70°C (with no icing)			
Max. relative humidity	80% up to 31°C decreasing linearly 50% at 40°C.			
Rated pollution degree	According to EN 60529	Front panel : Rear panel :		
Height	Max. 2000m			
Do not use the device in locations subject to corrosive and flammable gases.				



INPUTS	
Count inputs (CP1, CP2)	2 channels (Max. 10kHz, 5V to 30V pulse)
Frequency (Hz)	25, 500, 1000, 2000, 5000, 7500, 10kHz (selectable by programming)
Minimum On ans Off times	20ms for f=25Hz
for pulses	1ms for f=500Hz
	500 s for f=1kHz
	250 s for f=2kHz
	100 s for f=5kHz
	67 s for f=7,5kHz
	50 s for f=10kHz
Reset input	PNP: Positive reset (5V to 30V pulse with adjustable pulse time between 2ms and 50ms) NPN: GND terminal is connected to the RESET IN terminal.

OUTPUTS		
Control output (OUT)	Relay: 250V AC, 2A (for resistive load), NO+NC	
	Open collektor output (S.S. OUT): Max. 30V DC, 100mA.	
Auxiliary power supply	12V DC, Max. 50mA (without regulation)	
Life expectancy for relays	Mechanical 30.000.000 operation; Electrical 300.000 operation.	
Note: Relay and S.S.OUT outputs are in synchronization. When OUT relay is energized S.S. OUT transistor goes into saturation.		

HOUSING		
Housing type	Suitable for flush-panel mounting according to DIN 43 700.	
Dimensions	W72xH72xD97mm	
Weight	Approx. 405g (after packing)	
Enclosure material	Self extinguishing plastics	

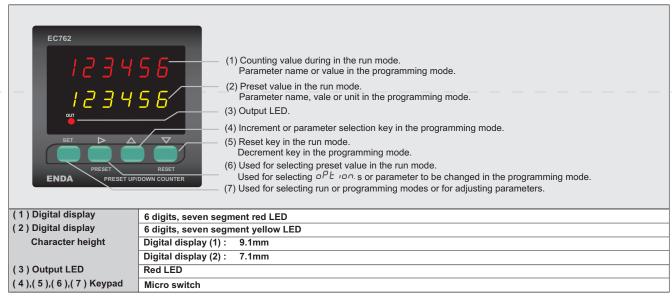
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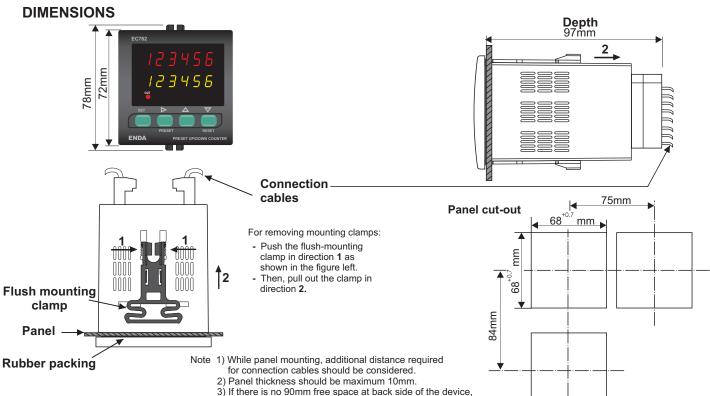
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 $\textbf{While cleaning $\underset{\leftarrow}{$\texttt{th}$e device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.}$

EC762-E-06-R

TERMS



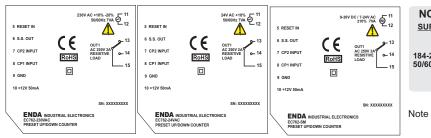


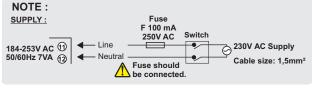
it would be difficult to remove it from the panel.

CONNECTION DIAGRAM



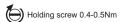
ENDA EC762 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of the cables that are connected to the device must be free of energy. The device must be protected against inadmissible humidity, vibrations, severe soiling and make sure that the operation temperature is not exceeded. All input and output lines that are not connected to the supply network must be laid out as shielded and twisted cables. These cables should not be close to the power cables or components. The installation and electrical connections must be carried on by a qualified staff and must be according to the relevant locally applicable regulations.

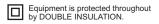


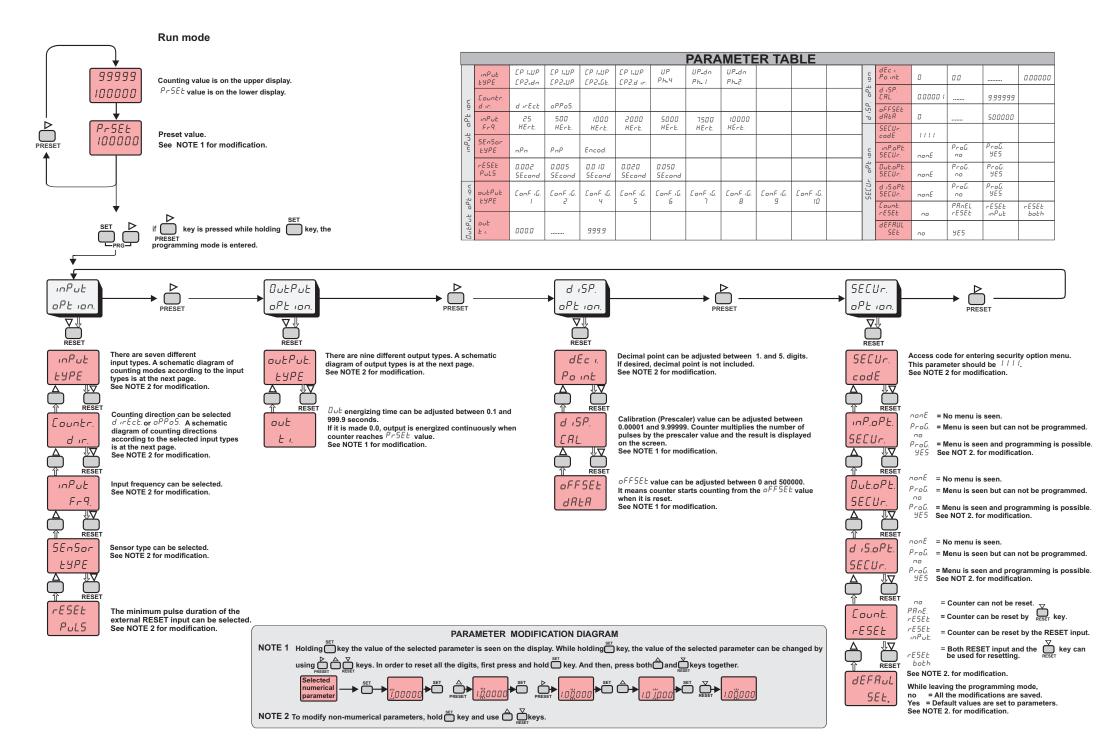


Note: 1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.

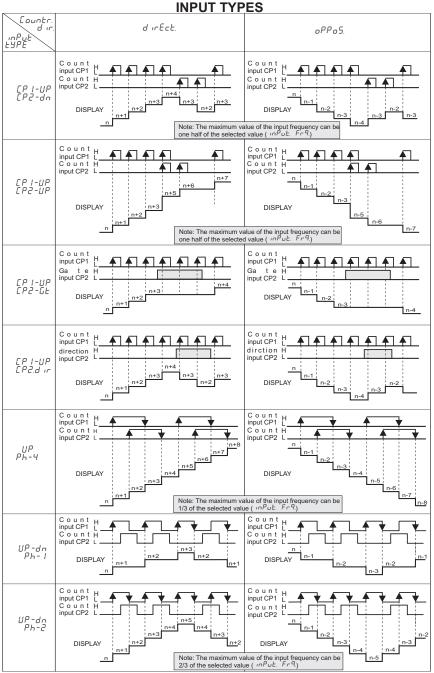
2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.







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NOTE:

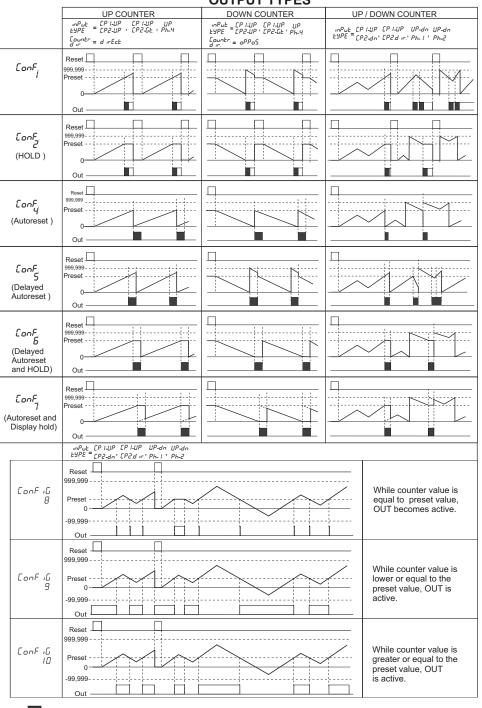
1) For PNP sensor, counter is triggered at the rising edge of the pulses.

For NPN sensor counter is triggered at the falling edge of the pulses.

2)For NPN sensor, if you select InPELEYPE EP I.U. EP2.r., above diagram for Entend Inc. of InEct replaces with Entend Inc. 0PPo.

Input frequency should not exceed the values indicated above. Otherwise, counter value will be wrong.

OUTPUT TYPES



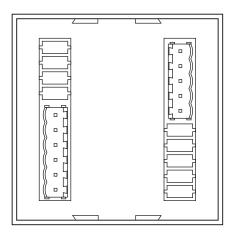
Adjusting out to a value between 0.1 and 999.9 seconds, a pulse output is obtained.

E .

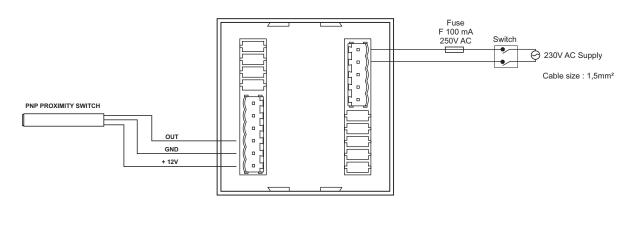
Adjusting out to 0.0, a continuous output is obtained.

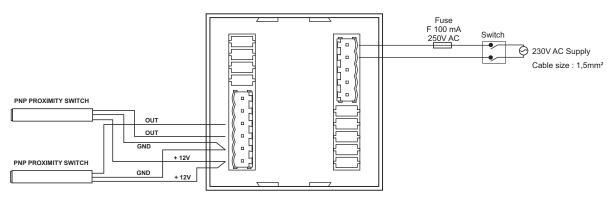
EC762-E-06-R

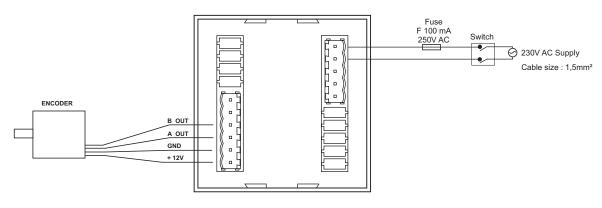
TERMINAL CONNECTION



TYPICAL SENSOR CONNECTIONS







NOTE: NPN PROXIMITY SWITCH connection is the same as PNP PROXIMITY SWITCH connection.