

Programmable Timers



- 6 digits actual value and 6 digits Set value Display
- Operation with 1 Set Value
- Reset , Pause and Start inputs
- NPN/PNP input type selection
- Programmable Time Bases (Hour, Minute, Second)
- Operation with Automatic and Manual Reset

SPECIFICATIONS:

INPUTS:

Reset Input: Switch, Proximity or Capacitive sensor can be connected.

Pause Input: Switch, Proximity or Capacitive sensor can be connected.

Start Input: Switch, Proximity or Capacitive sensor can be connected

Sensor Type Selection: NPN or PNP can be selected. Reset Function: Automatic or Manual.

Reset.Pause and Start Inputs Filter: 2-250 msec (Can be adjusted in parameter.)

OUTPUT

Process Output: Relay Output(5A@250V

at Resistive Load)

SUPPLY VOLTAGE

Supply Voltage:

230 V ~ 50/60 Hz (-15%;+10%) 2.3VA 115V ~ 50/60 Hz (-15%; +10%) 2.3VA 24V ~ 50/60 Hz (-15%; +15%) 2.3VA

24V=== 4W / 24V ~ 50/60 Hz (-15% : +15%) 4VA

(Must be determined in order.)

DISPLAY:

Actual Value Display:

48 x 48 mm : 8 mm Red 6 digit LED Display 96 x 48 mm : 13.2 mm Red 6 digit LED Display 72 x 72 mm: 10.8 mm Red 6 digit LED Display 96 x 96 mm : 13.2 mm Red 6 digit LED Display

Set Value Display:

8 mm Green 6 digit LED Display

LED Displays: SV (Set value), OP(Output Position).

ENVIRONMENTAL RATINGS and PHYSICAL SPECIFICATIONS

Operating Temperature: 0...50°C Humidity: 0-90%RH (none condensing) Protection Class: lp65 at front, lp20 at rear

Dimensions:

Dimession: (48 x 48mm,Depth: 95 mm) 210 gr. Dimession: (96 x 48mm,Depth:96 mm) 210 gr. Dimession: (72 x72mm, Depth:95.5 mm) 250 gr.

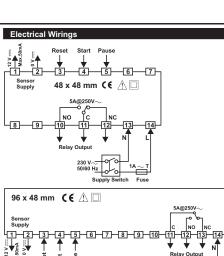
Dimession: (96 x 96mm, Depth:96 mm) 340 gr.

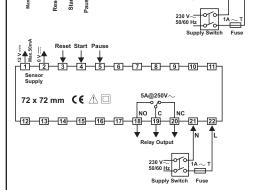
Panel Cut-Out:

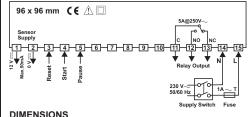
46 x 46mm 92 x 46mm

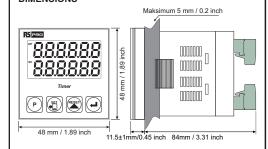
69 x 69mm

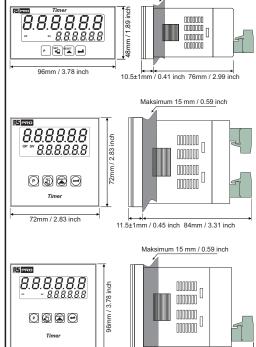
92 x 92mm



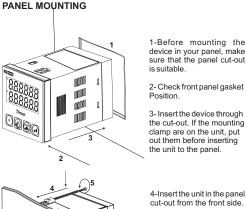








Maksimum 15 mm / 0.59 inch



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11.5±1mm / 0.45 inch 84mm / 3.31 inch

5-Insert the mounting

clamps to the holes that

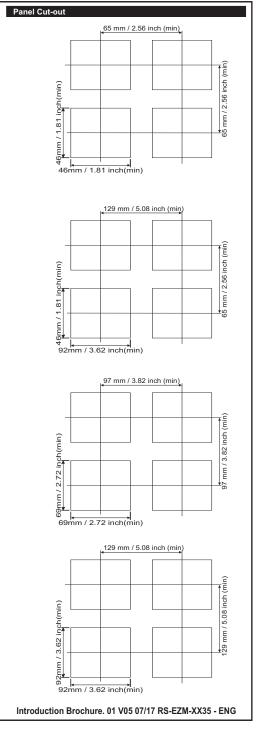
located top and bottom

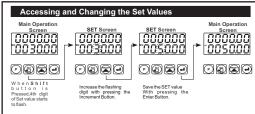
sides of device and screw up the fixing screws until

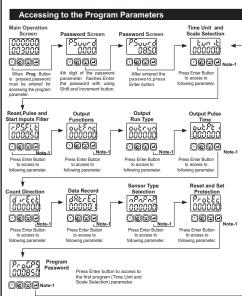
the unit completely

immobile within the panel.

96mm / 3.78 inch







Note 1- Parameter value can be changed with Incrament button. When the Enter button is pressed, parameter value will be saved and following parameter is accessed.

Note 2- Press "P" button is exit without saving the parameter value. Thus Main Operation Screen is appeared.

Parameter Definitions

દિશાન દે : Time Unit and Scale Selection (Default =0)

Hour/Minute base counting timer.
It can be adjusted from 00.00 to 99.59

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©00002 Second/Milisecond base counting timer. It can be adjusted from 00.00 to 99.99.

Hour/Minute base counting timer.
It can be adjusted from 00.00 to 23.59.

1000014 Hour base counting timer.

It can be adjusted from 000.00 to 999.99

000005 Minute base counting timer.

It can be adjusted from 000.00 to 999.99

It can be adjusted from 000.00 to 999.99.

PSFLE: Reset, Pause and Start Input Pulse Time. (Default =50)

It is used to protect against the electrical contact debounce or the signal that is less than the determined pulse time. It can be adjusted from 000002 to 000250 milisecond.

ουξερς :Output Functions (Default=0)

0:Manuel Reset-1:Process counts,until manuel reset happens. When count value reaches the Set value,Output position is changed.



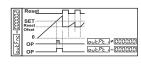
<u>outPt .</u>|≠[000000] veya <u>outPt .</u>|=[00000.

2:Manuel Reset-3:Process counts,until manuel reset happens. When count value reaches the Set value,output position is changed. After the end of the output pulse time output output position changes the old position.

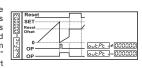
is changed.Counting

doesn't change until

manuel reset happens.



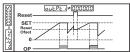
3:Automatic Reset-1When count value reaches the set value,output position is changed.Process value is reset automatically and counting will continue from "0"(upcount) or "Set" (downcount) if the start input is active after the end of the output pulse time,output position chan ges the old position.



outPt .≠

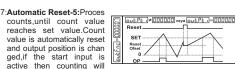
SET

4:Automatic Reset-2When count value reaches the set value,output position is changed.Counting doesn't continue over or the set value.Process value is reset automatically. Counting continue from "0" (upcount) or "Set" (downcount) if the start is active.Output position changes the old position at the end of the output pulse time.



5-Automatic Reset-3When count value reaches the set value,output position is changed.Count value becomes zero (for 0->P) counting restarts on "0" value,if the start input is active,but set value is showen on the process value screen.Output position becomes the old position end the real count value can be seen at the end of output pulse time.

6: Automatic Reset-4When count value reaches the set value, output position is changed. Count value is automatically reset and counting will continue (for 0->P), if the start input is active output position changes the old position at the end of the output pulse time.





000000 Normally De-energised.

continue "0" (upcount) or

"Set" (downcount).

ರಾಕ್ಟ್ : Output Pulse Time (Default =00.02.00)

It determines how long Output will be active. It can be adjusted from 00.00.00 to 99.59.99 (99 minutes; 59.99 seconds). If it is 00.00.00, then it operates indefinitely.

હિ તર દેવદે: Count Direction (Default =0)

Upcount. (0 --> Preset)

ಠ೫೬೯೯೯ : Data Record (Default =1)

©00000 Count value is saved to memory when power is disconnected and restored on power up.

Google Count value is not saved to memory when power is disconnected.

ດຂວາດ (Default =0)

000000 NPN sensor type selected.

ProtEc: Reset and Set Protection (For Front Panel Access) (Default =0)

OCCUPATION No Reset and Set protection.

00000 | Only Reset button protection is active.

UUUUU I Only Reset button protection is active

000002 Only Set button protection is active .

000003 Full Protection. Reset and Set button protection is active.

Proଦେଶ :Program Password (Default =0)

It is used for accessing to the program parameters.

It can be adjusted from 000000 to 009999

When programming Pro:

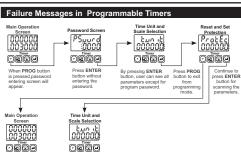
button is pressed, will appear on the display.

If this parameter is different from "0" and user wants to access to the program parameters;

1- If user does not enter the PSuurd value correctly; operation screen will appear without entering to operator parameters.

2- When PSuurd in top display and DDDDD in bottom display, if user presses ENTER button without entering password (for observing the parameters):

User can see all parameters except Program Password but device does not allow to do any change in the program parameters



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1- If Actual Value is flashing and counting is stopped;

It appears if any of the count value is bigger than the maximum count value.

To remove this warning and reset the count value press RESET button.

press RESET button.

2- If Actual Value is flashing and counting is

the minimum count value.

stopped;
It appears if any of the count value is lower than

To remove this warning and reset the count value press RESET button.

Installation



Before beginning installation of this product, please read the instruction manual and warnings below carefully.

In package,

-One piece unit

-Two pieces mounting clamp

-One piece instruction manual

A visual inspection of this product for possible damage occured during shipment is recommended before installation. It is your responsibility to ensure that qualified mechanical and electrical technicians install this product

If there is danger of serious accident resulting from a failure or defect in this unit, power off the system and the electrical connection of the device from the system.

The unit is normally supplied without a power switch or a fuse. Use power switch and fuse as required.

Be sure to use the rated power supply voltage to protect the unit against damage and to prevent failure.

Keep the power off until all of the wiring is completed so that electric shock and trouble with the unit can be prevented.

Never attempt to disassemble, modify or repair this unit. Tampering with the unit may results in malfunction, electric shock or fire.

Do not use the unit in combustible or explosive gaseous atmospheres. During the equipment is putted in hole on the metal panel while mechanical installation some metal burrs can cause injury on hands, you must be careful.

Montage of the product on a system must be done with it's mounting clamp. Do not do the montage of the device with in appropriate mounting clamp. Be sure that device will not fall while doing the montage.

It is your responsibility if this equipment is used in a manner not specified in this instruction manual.

Warrant

Warrants that the equipment delivered is free from

defects in material and workmanship. This warranty is provided for a period of two years. The warranty period starts from the delivery date. This warranty is in force if duty and responsibilities which are determined in warranty document and instruction manual performs by the customer completely.

Maintenance		
Repairs should only be performed by trained and specialized personnel. Cut power to the device before accessing internal parts. Do not clean the case with hydrocarbon-based solvents (Petrol, Trichlorethylene etc.). Use of these solvents can reduce the mechanical reliability of the device. Use a cloth dampened in ethyl alcohol or water to clean the external plastic case.		
acciones of material and an estimate places.		
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