IEElectronics

Conception / Fabrication
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CPR Bestek
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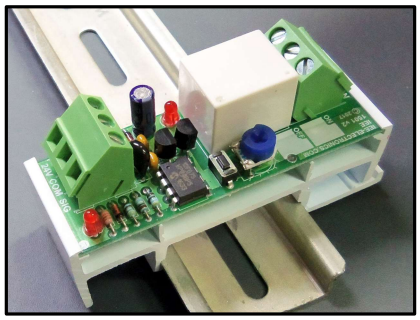
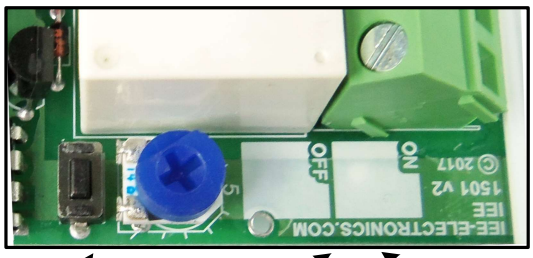
IEE 1501v2 (Input 0 – 10 Vdc)

1 contact NO / NC relay, with adjustable ON / OFF input signal



DIN rail compatible & LED



Supply voltage :

Rectifier :	1 Diode (half wave)
V ac - dc :	20V min to 28V max.
Power :	0.9va @ 24Vac, 19 mA @ 24Vdc

Input signal :

V dc : 0–10v (Protection : 24 vac & variation over 10 hz +)
Currant : 1mA max. @ 10Vdc

Input signal (0-10v)

Default ON /OFF value	: 6.0v / 4.0v
Adjustable from	: 1v to 9.5v
Minimum offset	: 0.300 volt

Operating temperature

-40° C to 85° C , -40 to 185¨F

RELAY

Arrangement :	1C (1 Com with NO NC)
Material :	Ag –CdO - Ag SnO2
Contact (résistive) :	12A/125Vac,28Vdc 6A/277Vac 10A/250Vac
Contact (inductive) :	420W 2500VA
Voltage max. :	110VDC 380Vac
Current max. :	20A
Contact :	50μΩ □Max
Life :	Méchanical 10,000,000 Electrical 1,000,000
Make time :	10 mSec. Max.
Brake time :	5 mSec. Max

CH0050406-2000
E169380
R9858271

COMPONENTS

Terminal :
Angle cage 35º
12 to 22 AWG
10 Amp, 300Vac
PA66 UL94-0

Circuit board :
FR4 Fire Retardant
UL Flame Class 94 V-0

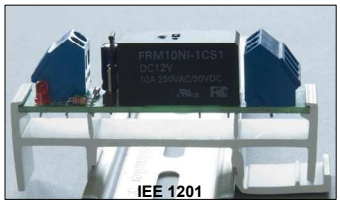
Snap Track :
PVC , DIN rail compatible
UL Flame Class 94 V-0

Dimension :
L 7cm, 2.75" x W 2.5 cm, 1" x H 3.8cm, 1.5"

Installation

Insert from left side

Press on right side



Remove with flat screw driver

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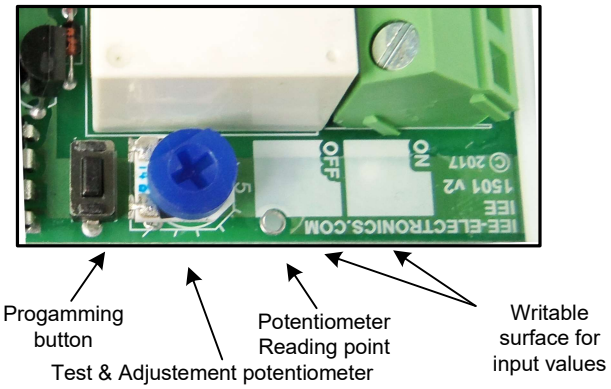

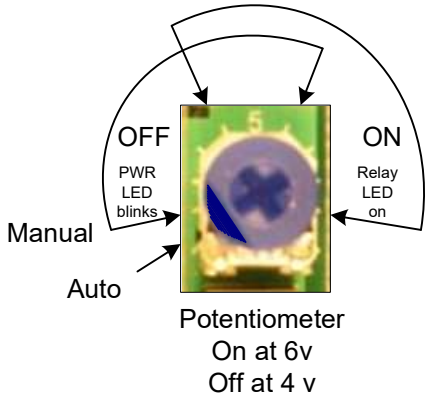

Programming input signal ON / OFF (0-10v signal) :

Method 1 : Using input signal :
a) Adjust input signal to the ON desired value .
b) Press and hold programming button for 3 sec.
(PWR LED turns OFF and blinks once after 3 sec. If Relais was ON , it turns off .
Input value is immediatly recorded .
c) Adjust input signal to the OFF desired value .
If no change , a minimum offset of -0.300v is recorded .
d) Press the button again or wait 15 sec. to record the new values .
PWR LED blinks once and turns ON after 1 sec. to indicate the end of recording .
Circuit is back to auto .

Method 2 : Using potentiometer : (Potentiomer has priority on input signal)
a) Adjust potentiometer (PWR LED blinks 4 * sec.) to the ON desired value by measuring the voltage between COM and test point .
(Multiply by 2, ex.: 3.5v = 7v for input signal)
b) Press and hold programming button for 3 sec.
(PWR LED stays ON for 3 sec. and turns OFF , release button , PWr LED blinks 2 * sec.)
c) Adjust potentiometer to OFF desired value .
If no change , a minimum offset of -0.300v will be recorded .
d) Press the button again or wait 15 sec. to record the new values .
PWR LED blinks once and turns ON after 1 sec. to indicate the end of recording .
Circuit is back to auto .

Potentiometer : Potentiometer can be use at all time to test the ouput .
While testing , PWR LED blinks 4 * sec.
If relay was already ON , it turns OFF at about 15° angle , from there, PWR LED blinks.
Relay turns ON at about 105° angle .
An offset of 30° backward is needed to turn the relay OFF at about 75° angle .

Protection : If input signal varies more than 10 times per sec. or is overlaps with ac voltage , circuit will maintain the relay ON for 10 sec.than will turn it OFF until the signal is stabilised for at least 5 sec.
Once the relay is OFF under protection , LED blinks at 8 hz