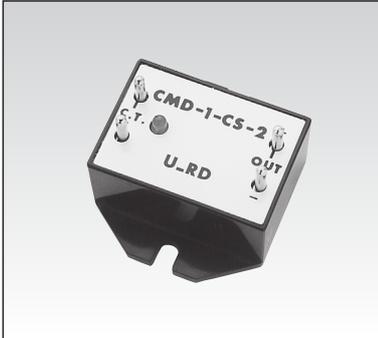


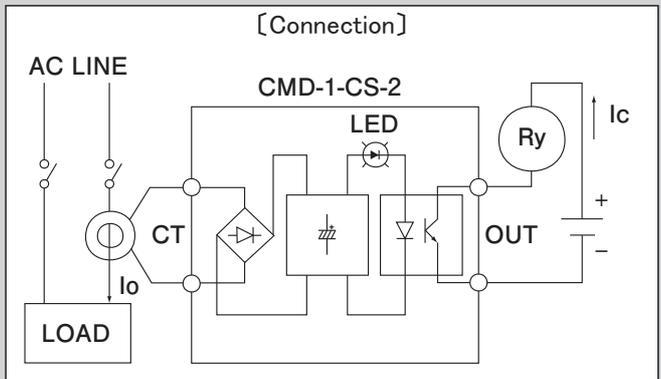
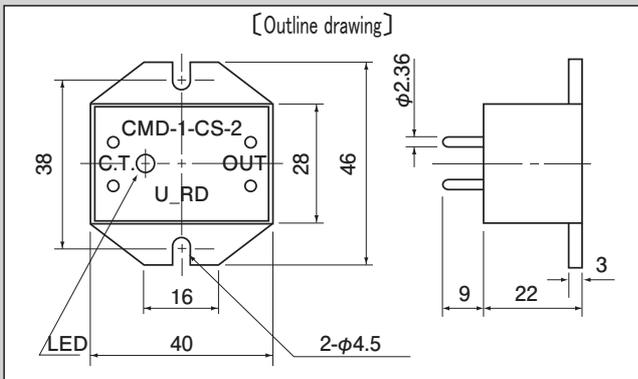
ON/OFF current detection module (transistor output type)



Model **CMD-1-CS-2**

[Feature]

- Module to discriminate presence or absence of current easily, by combination with AC current sensor
- Possible to drive the relay of DC circuit or sequencer directly, by photo coupler open collector output, without power supply
- Possible to set to any current value of operating point to some extent, by the choice of applied current sensor and changing the condition of use, and so on



[Specification] Ta=25°C

Applied current sensor	ON sensitivity typ		
	I _c =5mA	I _c =10mA	I _c =20mA
CTL-6-H series	1.6A	1.8A	2.1A
CTL-12-S36-10	1.2A	1.3A	1.5A
CTL-24-TE	1.5A	1.6A	1.8A
CTL-6-P.S-Z	0.7A	0.9A	1.2A
CTL-12-S60-7Z	0.4A	0.5A	0.7A
CTL-12-S30-10Z	0.7A	0.9A	1.2A
CTL-24-S28-10Z	0.9A	1.2A	1.5A
CTL-6-S32-8F-CL	4.0A	4.5A	5.0A
CTL-10-CLS	0.9A	1.0A	1.2A
CTL-16-CLS	0.9A	1.0A	1.2A

Output circuit

Output specification	Photo coupler open collector output: DC35V/150mA MAX
Operating temperature	-20°C~+75°C, ≤80%RH, no condensation
Storage temperature	-30°C~+90°C, ≤80%RH, no condensation
Screw torque	0.7N · m
Mass	approximately 17g

[Remark]

- (1) Operating sensitivity is typical, so please see the margin for practical use
- (2) Accessorie 4pcs each
Receptacle terminal (LVF-0.1T-2.36N)
Sleeve (S1P-LV)
- (3) Current sensitivity to be N times with N turns of detected wire into the aperture of current sensor at the time of discrimination of small current
- (4) Connect resistor (RL) in parallel to the output of current sensor at the time to decrease the current sensitivity
Possible to calculate as the indication below

$$E_o = I_o \cdot R_L / n = 1.8 \sim 2 \text{ (V)}$$
 E_o : Current sensor output voltage(V)
 I_o : Operating current value(A)
 n : Current sensor wiring turns (turns)
- (5) With over current flowing continuously, the inside of module to be burned out
 In the case to exceed 0.15A for CT output current value (i=I_o / n), please decrease the current flowing into the module with the connection of resistor to the CT output in parallel
 Please choose resistor value and wattage with indication of $R = 5V / (i - 0.15A) \dots \dots (\Omega)$

Alarm equipment

Attention: Our products are designed and manufactured only for industrial application. It is not for the application for medical, nuclear facilities, life line (mass transportation, weapon, and so on), airplane, and space satellite, with high level safety and reliability.