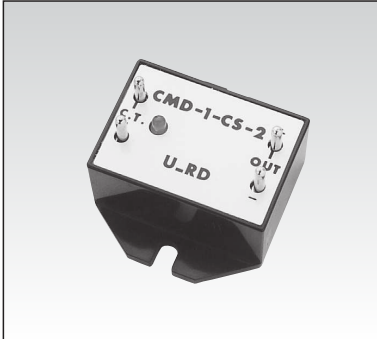


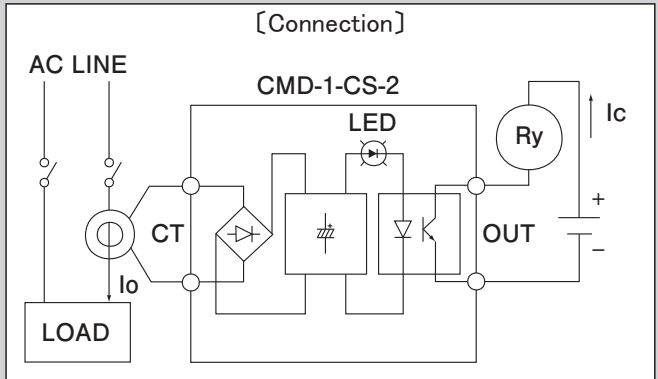
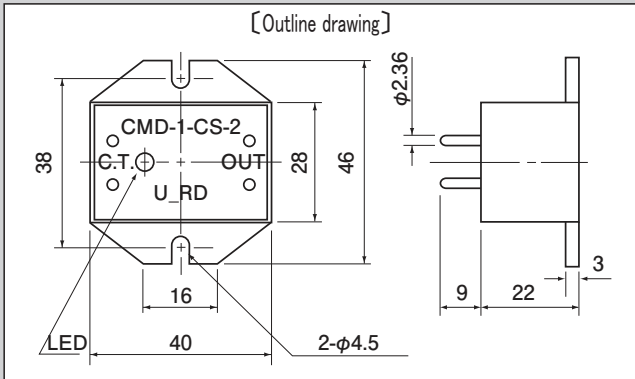
ON/OFF current detection module (transistor output type)



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		
	Ic=5mA	Ic=10mA	Ic=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  

$$E_o = I_o \cdot R_L / n = 1.8 \sim 2 \text{ (V)}$$
 Eo : Current sensor output voltage(V)  
 Io : 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=Io / 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  $R=5V / (i-0.15A) \dots (\Omega)$

Alarm equipment