

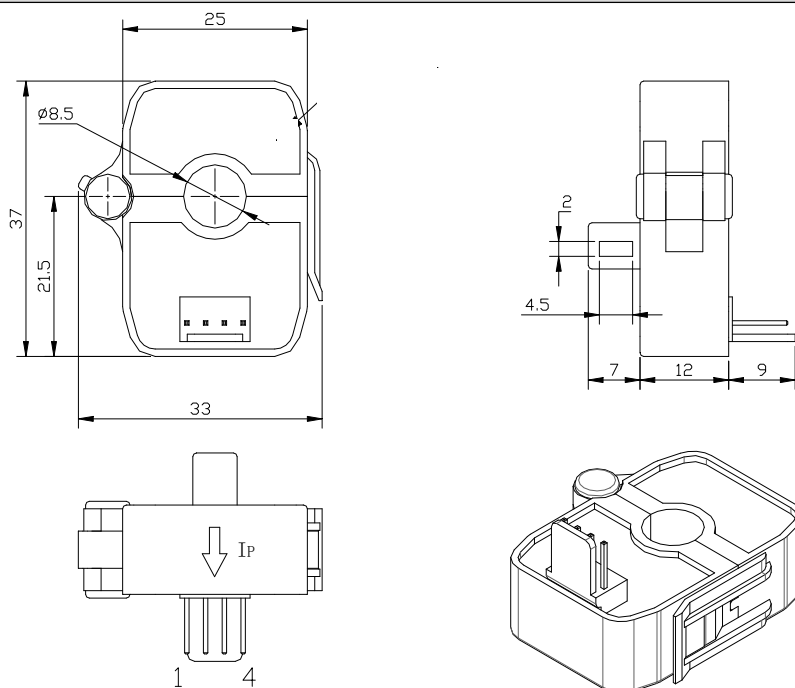
CS050EKET12H Hall-effect Current Sensor Series



Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

Electrical characteristics						
	Type	CS010EKET12H	CS020EKET12H	CS025EKET12H	CS050EKET12H	
I_{PN}	Primary nominal input current	10	20	25	50	A
I_P	Measuring range of primary current	0~±20	0~±40	0~±50	0~±80	A
V_{OUT}	Nominal output voltage	±1 (±1%)				V
V_C	Supply voltage	+12(±5%)				V
I_C	Current consumption	10				mA
V_d	Insulation voltage	AC/50Hz/1min				kV
ϵ_L	Linearity	±1				%FS
V_0	Offset voltage	$T_A = 25^\circ\text{C}$ 2.5±1%				V
V_{OM}	Residual voltage	$I_{PN} \rightarrow 0$ <±10				mV
V_{OT}	Thermal drift of V_0	$I_{PN}=0$ $T_A = -25 \sim +85^\circ\text{C}$ <±0.5				mV/°C
T_r	Response time	≤1				ms
f	Frequency bandwidth(-3dB)	DC~2.2				kHz
T_A	Ambient operating temperature	-25~+85				°C
T_S	Ambient storage temperature	-40~+100				°C
R_L	Load resistance	≥4.7				KΩ
m	Mass	21				g
	Standard	Q/320115QHKJ01-2010				

Dimensions of drawing (mm)



Elucidation: 1:+12V 2:NC 3: V_{OUT} 4:0V(GND)

Remarks

- Incorrect connection may lead to the damage of the sensor.
- V_{OUT} is positive when the I_P flows in the direction of the arrow.