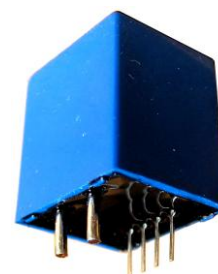




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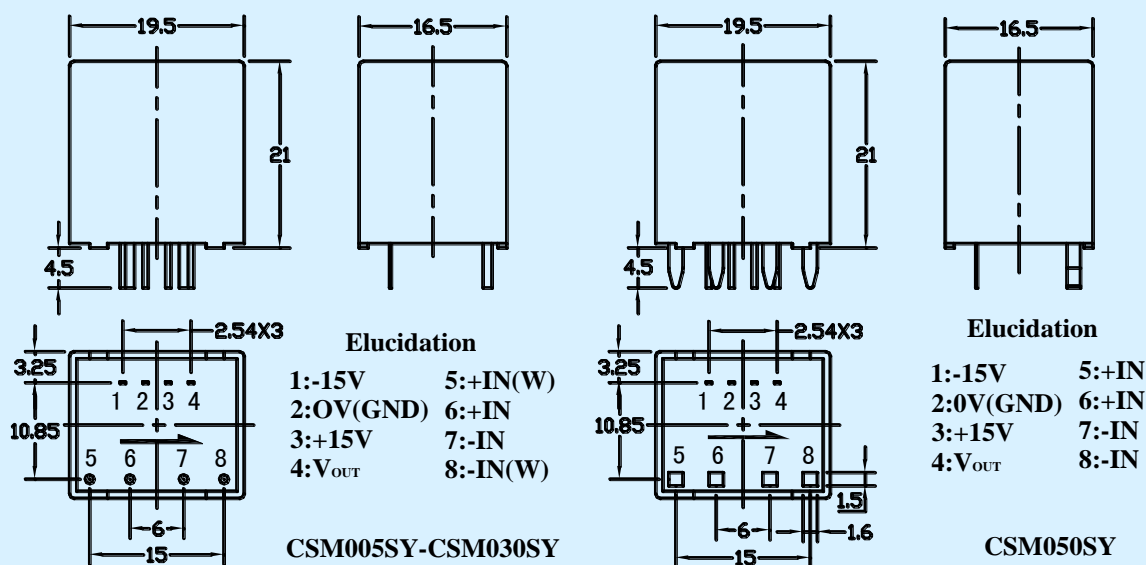
CSM050SY Hall-effect Current Sensor Series



Closed 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	CSM005 SY	CSM010 SY	CSM015 SY	CSM020 SY	CSM025 SY	CSM030 SY	CSM050 SY		
I_{PN}	Primary nominal input current	5	10	15	20	25	30	50	A
I_P	Measuring range of primary current	0~±10	0~±20	0~±30	0~±40	0~±50	0~±60	0~±100	A
	Dimension of input terminal	Φ0.8	Φ1.0	Φ1.0	Φ1.4	Φ1.4	Φ1.6	2×1.6×1.5	mm
K_N	Conversion ratio	3:1500	2:2000	1:1500	1:2000	1:2500	1:3000	1:3125	
R_{IM}	Internal measuring resistance	400	400	400	400	400	400	250	Ω
V_{OUT}	Secondary nominal output voltage	4±0.5%							V
V_C	Supply voltage	±15(±5%)							V
I_C	Current consumption	<25							mA
V_D	Insulation voltage	AC/50Hz/1min			2.5				kV
ϵ_L	Linearity	<0.1							%FS
V_O	Zero offset voltage	$T_A=25^\circ C$			<±25				mV
V_{OT}	Thermal drift of V_O	$I_P=0 \quad T_A=-25\sim+85^\circ C$			<±0.5				mV/°C
T_R	Response time	<1							μs
f	Frequency bandwidth(-3dB)	DC~200							kHz
T_A	Ambient operating temperature	-25~+85							°C
T_S	Ambient storage temperature	-40~+100							°C
	Standard	Q/3201CHGL02-2007							

Dimensions of drawing (mm)



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.