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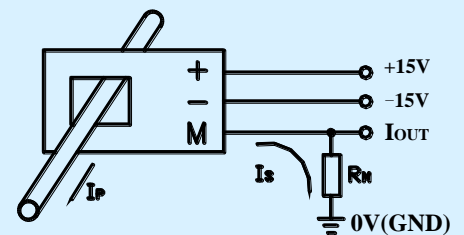
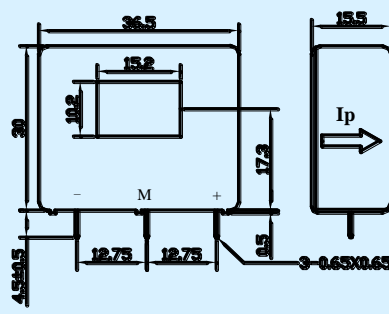
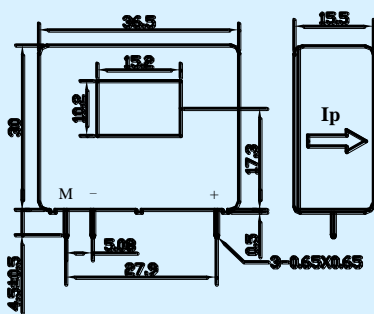
CSM200AP Hall-effect Current Sensor Series



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	CSM050AP	CSM100AP	CSM125AP	CSM200AP		
I_{PN}	Primary nominal input current	50	100	125	200	A
I_P	Measuring range of primary current	0~±150	0~±300	0~±375	0~±600	A
I_{SN}	Secondary nominal output current	50±0.5%	50±0.5%	125±0.5%	100±0.5%	mA
K_N	Conversion ratio	1:1000	1:2000	1:1000	1:2000	
R_M	Measuring resistance ($V_C=±18V$)	0~100	0~68	0~15	0~12	Ω
V_C	Supply voltage	±12~±18(±5%)				V
I_C	Current consumption	$V_C=±15V$	10+ I_s			mA
V_D	Insulation voltage	AC/50Hz/1min	3			kV
ϵ_L	Linearity	<0.2				%FS
X	Accuracy	$T_A=25^\circ C$	<±0.7			%
I_0	Zero offset current	$T_A=25^\circ C$	<±0.2			mA
I_{OM}	Residual current	$I_P \rightarrow 0$	<±0.15			mA
I_{OT}	Thermal drift of I_0	$I_P=0$ $T_A=-25\sim+85^\circ C$	≤±0.005			mA/°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
R_S	Secondary coil resistance($T_A=25^\circ C$)	30	45	30	45	Ω
	Standard	Q/3201CHGL02-2007				

Dimensions of drawing (mm) Connection



Remarks

Incorrect connection may lead to the damage of the sensor. I_{SN} is positive when the I_P flows in the direction of the arrow.
Dynamic performance (di/dt and response time) are best with a primary bar in the center of the through-hole.