

CSM200AP Hall-effect Current Sensor Series



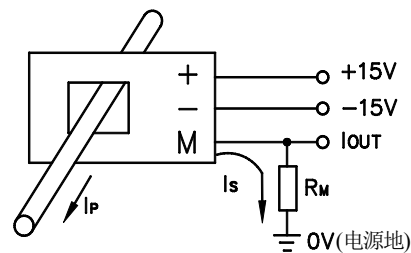
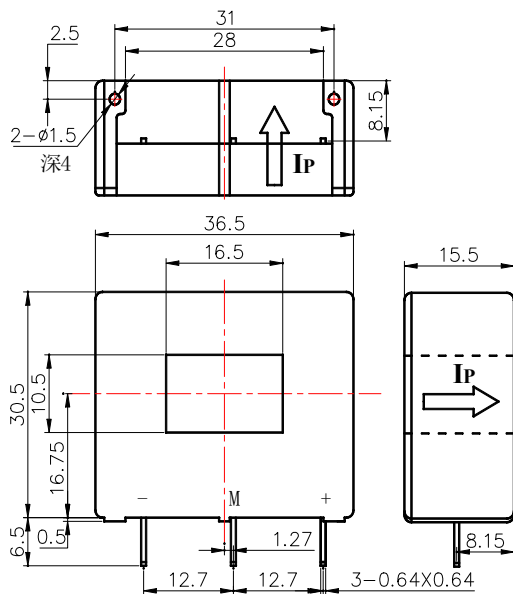
Closed loop current sensor is based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

Electrical characteristics

	Type	CSM200AP	
I_{PN}	Primary nominal input current	200	A
I_P	Measuring range of primary current	0~±300	A
I_{SN}	Secondary nominal output current	100±0.5%	mA
K_N	Conversion ratio	1:2000	
R_M	Measuring resistance	$V_C = \pm 12V / I_{PN}$	0-57 Ω
		$V_C = \pm 12V / I_P$	0-22 Ω
		$V_C = \pm 15V / I_{PN}$	0-87 Ω
		$V_C = \pm 15V / I_P$	0-42 Ω
V_C	Supply voltage	±12~±15(±5%)	
I_C	Current consumption	$V_C = \pm 15V$	10+ I_S mA
V_D	Insulation voltage	AC/50Hz/1min	3 kV
ϵ_L	Linearity		<0.1 %FS
X	Accuracy	$T_A = 25^\circ C$	<±0.7 %
I_O	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_O	$I_P = 0 \quad T_A = -25 \sim +85^\circ C$	≤±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($T_A = 25^\circ C$)		48 Ω
m	Mass		17 g
	Standard	Q/3201CHGL02-2016	

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.