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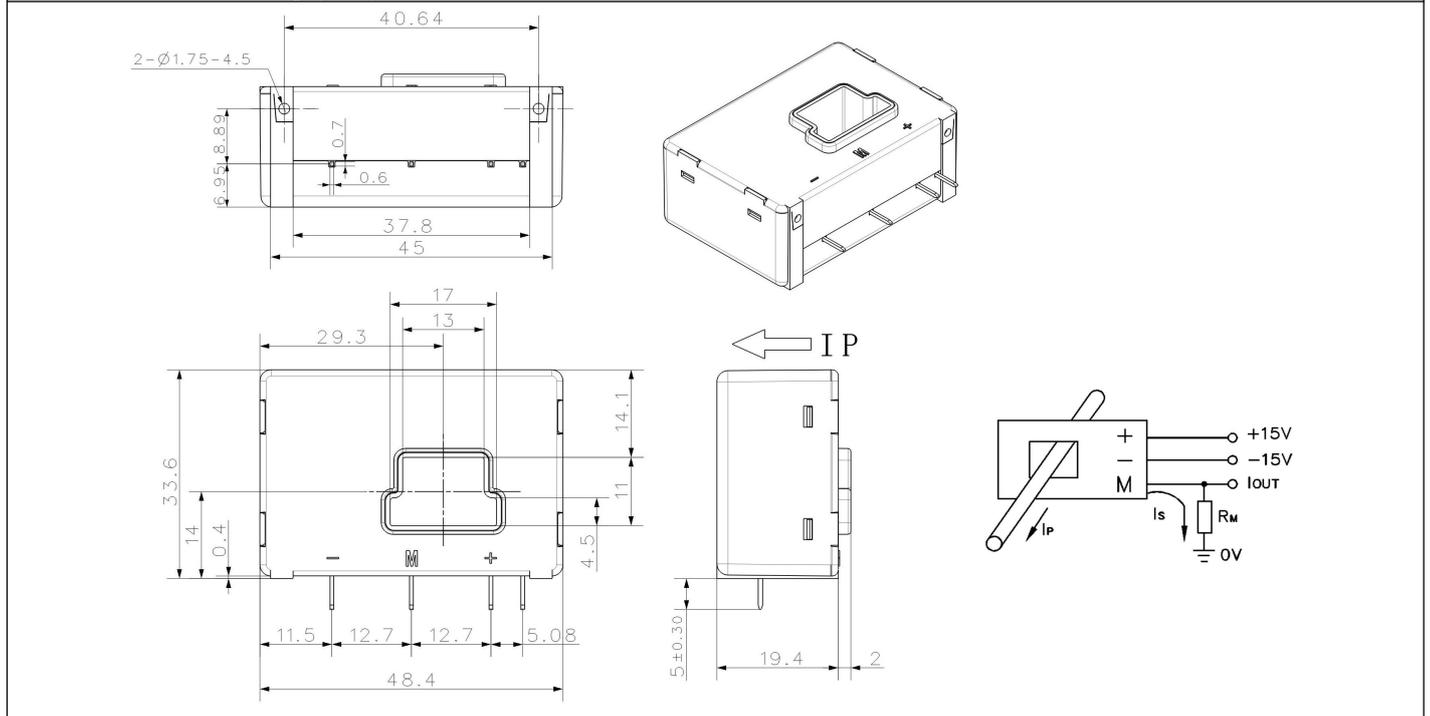
# CSM200LAP Hall-effect Current Sensor



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	CSM200LAP		
$I_{PN}$	Primary nominal input current	200		A
$I_P$	Measuring range of primary current	0~±300		A
$I_{OUT}$	Secondary nominal output current	100		mA
$K_N$	Conversion ratio	1:2000		
$R_M$	Measuring resistance	$V_C=±12V/I_{PN}$	0-28	$\Omega$
		$V_C=±12V/I_P$	0-5	$\Omega$
		$V_C=±15V/I_{PN}$	0-58	$\Omega$
		$V_C=±15V/I_P$	0-9	$\Omega$
$V_C$	Supply voltage	±12~±15(±5%)		V
$I_C$	Current consumption	$V_C=±15V$	15+ $I_S$	mA
$V_D$	Insulation voltage	AC/50Hz/1min	3	kV
$\epsilon_L$	Linearity	<0.15		%FS
X	Accuracy	$T_A=25^\circ C$	<±0.5	%
$I_0$	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 $I_0$	$I_P=0 T_A=-40\sim+85^\circ C$	$\leq \pm 0.005$	mA/°C
di/dt	di/dt accurately followed	>200		A/ $\mu s$
$T_R$	Response time	$I_P=I_{PN} 10\%-90\%$	<1	$\mu s$
f	Frequency bandwidth(-1dB)	DC~100		kHz
$T_A$	Ambient operating temperature	-40~+85		°C
$T_S$	Ambient storage temperature	-40~+100		°C
$R_S$	Secondary coil resistance( $T_A=85^\circ C$ )	81		$\Omega$
m	Mass	40		g
	Standard	Q/320115QHKJ01-2016		

## Dimensions of drawing (mm) Connection



## Remarks

- Incorrect connection may lead to the damage of the sensor.  $I_S$  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.