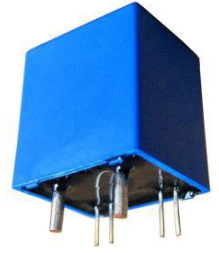


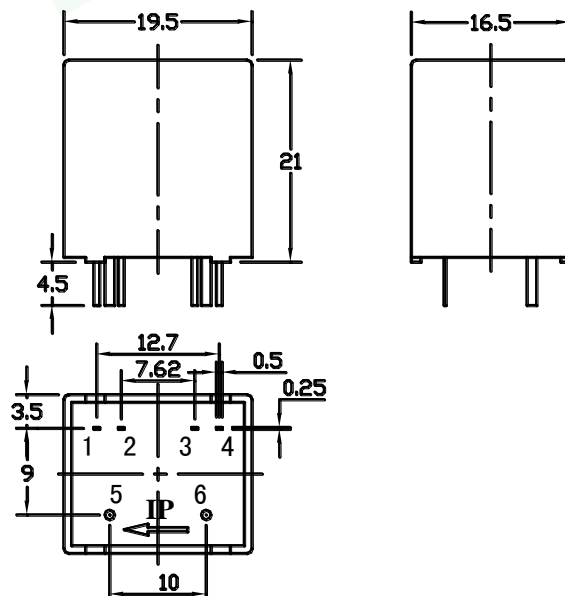
## MCSM050P Hall-effect Current Sensor Series

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	MCSM005P	MCSM010P	MCSM015P	MCSM020P	MCSM025P	MCSM030P	MCSM050P		
$I_{PN}$	Primary nominal input current	5	10	15	20	25	30	50	A
$I_P$	Measuring range of primary current	$0 \sim \pm 10$	$0 \sim \pm 20$	$0 \sim \pm 30$	$0 \sim \pm 40$	$0 \sim \pm 50$	$0 \sim \pm 60$	$0 \sim \pm 100$	A
	Dimension of input terminal	$\Phi 0.8$	$\Phi 0.1.0$	$\Phi 0.1.0$	$\Phi 1.4$	$\Phi 1.4$	$\Phi 1.6$	$\Phi 1.6$	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	$\Omega$
$V_{OUT}$	Secondary nominal output voltage	$4 \pm 0.5\%$							V
$V_C$	Supply voltage	$\pm 15 (\pm 5\%)$							V
$I_C$	Current consumption	<25							mA
$V_D$	Insulation voltage	AC/50Hz/1min			2.5			kV	
$\varepsilon_L$	Linearity	<0.1							%FS
$V_O$	Zero Offset voltage	$T_A = 25^\circ\text{C}$			< $\pm 25$			mV	
$V_{OT}$	Thermal drift of $V_O$	$I_P = 0 \quad T_A = -25 \sim +85^\circ\text{C}$			< $\pm 0.5$			mV/ $^\circ\text{C}$	
$T_R$	Response time	<1							$\mu\text{s}$
f	Frequency bandwidth(-3dB)	DC~200							kHz
$T_A$	Ambient operating temperature	-25~+85							$^\circ\text{C}$
$T_S$	Ambient storage temperature	-40~+100							$^\circ\text{C}$
	Standard	Q/3201CHGL02-2007							

### Dimensions of drawing (mm)



Elucidation: 1: $V_{OUT}$  2:+15V 3:-15V 4:GND 5:-Input 6:+Input

### 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.