

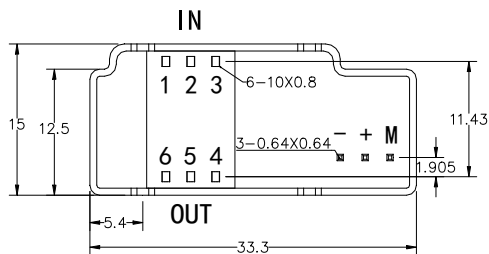
# CSM025LAH Hall-effect Current Sensor



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	CSM025LAH	
$I_{PN}$	Primary nominal input current	25	A
$I_P$	Measuring range of primary current	$0 \sim \pm 55$	A
$K_N$	Conversion ratio	1-2-3: 1000	
$I_{SN}$	Secondary nominal output current	$25 \pm 0.5\%$	mA
$R_M$	Measuring resistance	@ $I_{PN}(DC), \pm 12V$	$R_{min}=100, \max=420$
		@ $I_{PN}(DC), \pm 15V$	$R_{min}=120, \max=535$
$V_C$	Supply voltage	$\pm 12 \sim \pm 15 (\pm 5\%)$	V
$I_C$	Current consumption	$20 + I_S$	mA
$V_D$	Insulation voltage	AC/50Hz/1min	5.0
$\epsilon_L$	Linearity		$< 0.1$
$I_0$	Zero offset current		$\pm 0.2$
$I_{OT}$	Thermal drift of $I_0$	@ $I_{PN}=0$ $T_A = -25 \sim +85^\circ C$	$< \pm 0.005$
$T_R$	Response time	@ $100A/\mu S, 10\%-90\%$	$< 1$
$f$	Frequency bandwidth	@-3dB	DC $\sim$ 200
$T_A$	Ambient operating temperature		$-25 \sim +85$
$T_S$	Ambient storage temperature		$-40 \sim +125$
$R_S$	Secondary coil resistance	@ $T_A=85^\circ C$	35
$m$	Mass		18
	Standard	Q/320115QHKJ01-2013	

## Dimensions of drawing (mm) Connection

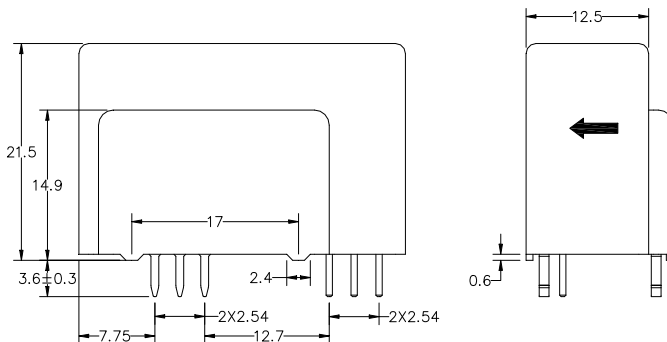
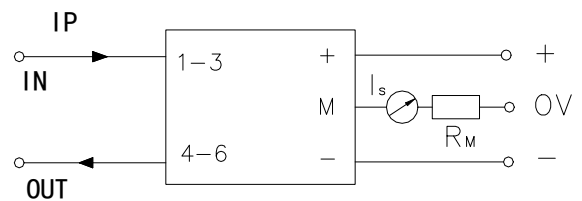


Elucidation:

-: -15V

+: +15V

M: Output



1. All dimensions are in mm.

2. General tolerance  $\pm 1mm$ .

## Remarks

- Incorrect connection may lead to the damage of the sensor.
- $I_{OUT}$  is positive when the  $I_P$  flows in the direction of the arrow.