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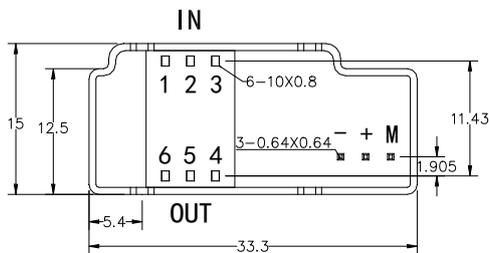
CSM025LAH Hall-effect Current Sensor



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

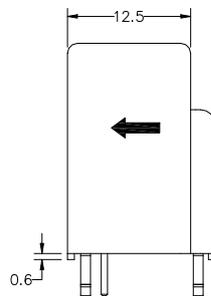
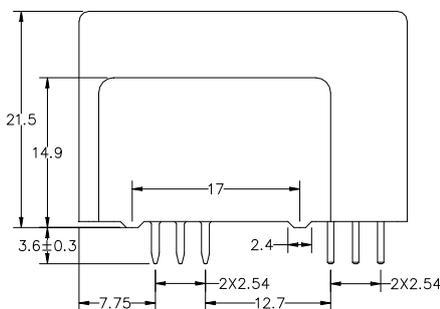
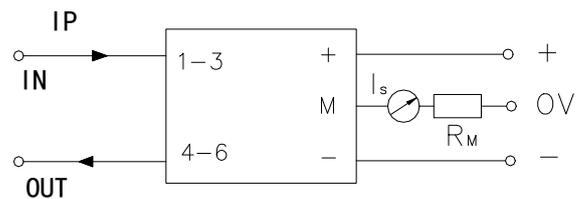
Electrical characteristics				
Type	CSM025LAH			
I_{PN}	Primary nominal input current	25	A	
I_P	Measuring range of primary current	0~±55	A	
K_N	Conversion ratio	1-2-3: 1000		
I_{SN}	Secondary nominal output current	25±0.5%	mA	
R_M	Measuring resistance	@ $I_{PN}(DC), \pm 12V$	$R_{min}=100, \max=420$	Ω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

Dimensions of drawing (mm) Connection



Elucidation:

- : -15V
- +: +15V
- M: Output



1. All dimensions are in mm.
2. General tolerance ±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.