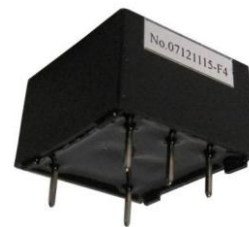




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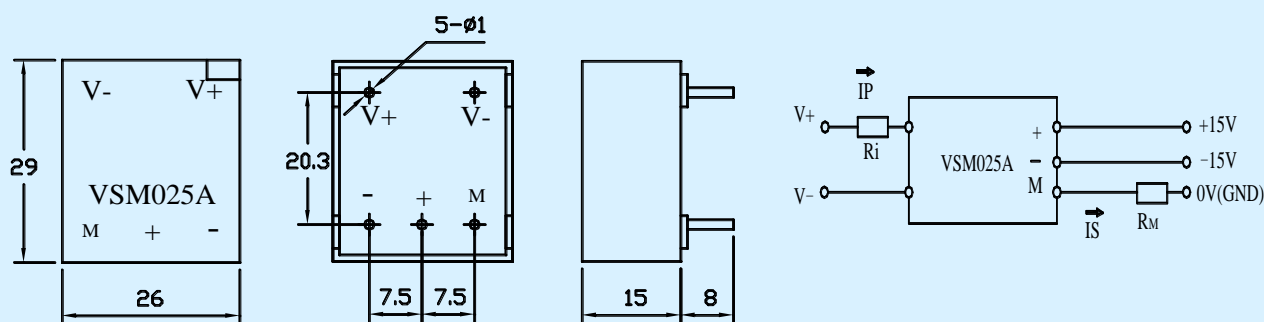
VSM025A Hall-effect Voltage Sensor Series



Closed loop voltage sensor based on the principle of Hall-effect. It can be used for measuring alternating, direct, pulsed and mixed voltage.

Electrical characteristics						
Type	VSM025A					
I_{PN}	Primary nominal input current	10		mA		
I_P	Measuring range of primary current	0~±14		mA		
I_{SN}	Secondary nominal output current	25		mA		
K_N	Conversion ratio	2500:1000				
R_M	Measuring resistance ($V_C = \pm 12V$)	$I_{PN} = \pm 10mA$	30~350	$I_P = \pm 14mA$	30~235	R_M
	($V_C = \pm 15V$)	$I_{PN} = \pm 10mA$	100~460	$I_P = \pm 14mA$	100~315	
V_C	Supply voltage	±12~±15(±5%)		V		
I_C	Current consumption	$V_C = \pm 15V$	10+ I_S	mA		
V_D	Insulation voltage	AC/50Hz/1min	2.5	kV		
ϵ_L	Linearity	<0.2		%FS		
X	Accuracy	$T_A = 25^\circ C$ $V_C = \pm 15V$	±0.8	%		
I_0	Zero offset current	$T_A = 25^\circ C$	<±0.15	mA		
I_{OT}	Thermal drift of I_0	$I_P = 0$ $T_A = -25 \sim +85^\circ C$	<±0.35	mA		
T_R	Response time	90% of V_{PN}	<40	µs		
T_A	Ambient operating temperature	-25~+85		°C		
T_S	Ambient storage temperature	-40~+100		°C		
R_P	Primary coil resistance	$T_A = 25^\circ C$	190	Ω		
R_S	Secondary coil resistance	$T_A = 85^\circ C$	55	Ω		
	Standard	Q/3201CHGL02-2007				

Dimensions of drawing (mm) Connection



Elucidation: ++:15V --:-15V M: I_{out}

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.