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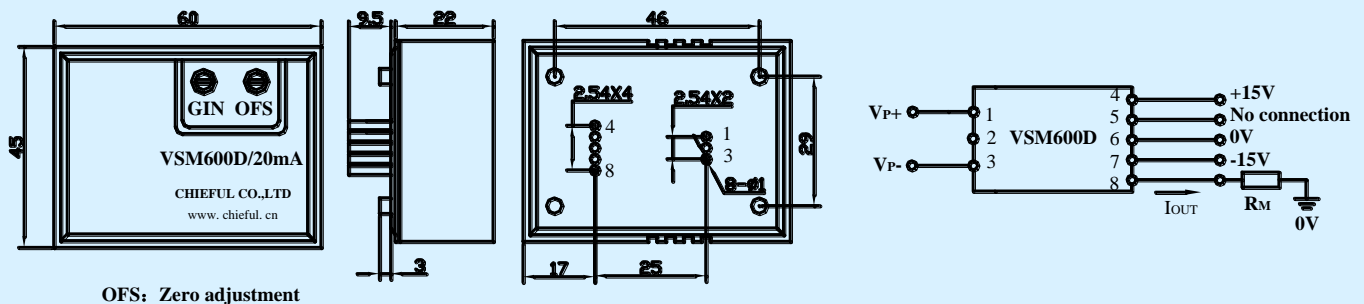
VSM600D Hall-effect Voltage Sensor Series



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	VSM 050D	VSM 100D	VSM 200D	VSM 300D	VSM 400D	VSM 500D	VSM 600D											
V_{PN}	Primary nominal input voltage									± 50	± 100	± 200	± 300	± 400	± 500	± 600	V	
V_P	Measuring range of primary voltage									$0 \sim \pm 100$	$0 \sim \pm 200$	$0 \sim \pm 400$	$0 \sim \pm 600$	$0 \sim \pm 800$	$0 \sim \pm 1000$	$0 \sim \pm 1000$	V	
I_{SN}	Secondary nominal output current									$20 \pm 1\%$						mA		
K_N	Conversion ratio									4000:1000								
R_M	Measuring resistance ($V_C = \pm 12V$)									$\pm V_{PN \max}$	30~445			$\pm V_{P \max}$	30~197			Ω
	($V_C = \pm 15V$)									$\pm V_{PN \max}$	100~588			$\pm V_{P \max}$	100~268			Ω
V_C	Supply voltage									$\pm 12 \sim \pm 15 (\pm 5\%)$						V		
V_D	Insulation voltage									AC/50Hz/1min			3			kV		
ϵ_L	Linearity									< 0.2						%FS		
X	Accuracy									$T_A = 25^\circ C$ $V_C = \pm 15V$			$< \pm 0.8$			%		
I_O	Zero offset current									$T_A = 25^\circ C$			$< \pm 0.2$			mA		
I_{OT}	Thermal drift of I_O									$I_P = 0$ $T_A = -25 \sim +85^\circ C$			$< \pm 0.5$			mA		
T_R	Response time									90% of V_{PN}			< 60			μs		
T_A	Ambient operating temperature									$-25 \sim +85$						$^\circ C$		
T_S	Ambient storage temperature									$-40 \sim +100$						$^\circ C$		
R_S	Secondary coil resistance									$T_A = 85^\circ C$			50			Ω		
	Standard									Q/3201CHGL02-2007								

Dimensions of drawing (mm) Connection



Remarks

Incorrect connection may lead to the damage of the sensor.
 I_{SN} is positive when the connection of V_P according to the top diagram.