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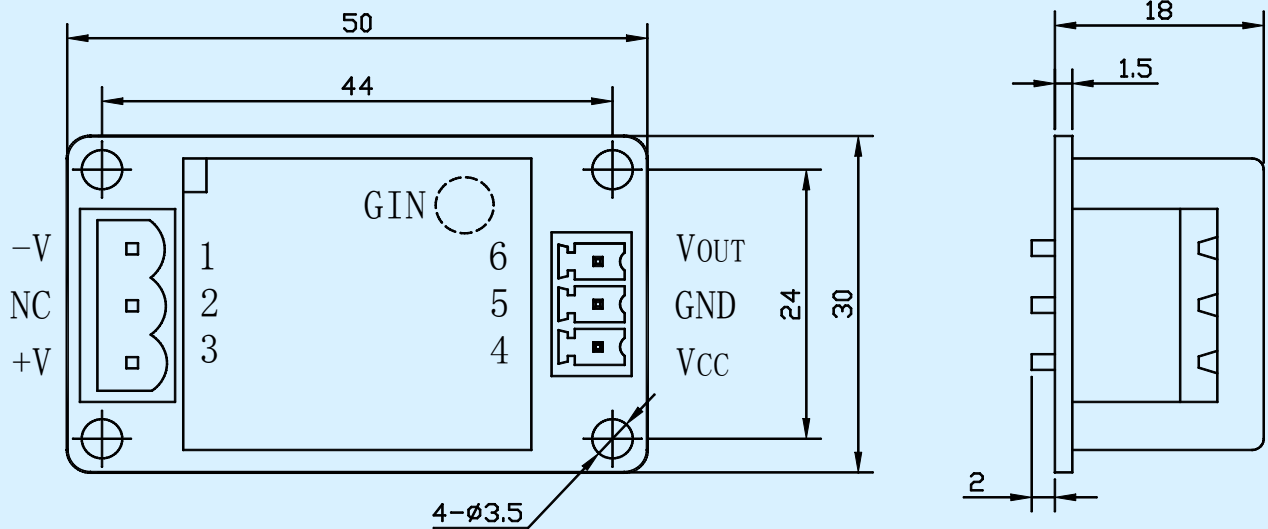
## VS1000AT2-P Voltage Sensor Series

The voltage sensor which apply of the principle of optoelectronic isolator , can measure dc voltage and pulse dc signal under the condition of electrical isolation



Electrical characteristics								
	Type	VS0.1AT2-P	VS001AT2-P	VS010AT2-P	VS100AT2-P	VS500AT2-P	VS1000AT2-P	
$V_{PN}$	Primary nominal input voltage	0.1	1	10	100	500	1000	V
$V_P$	Measuring range of primary voltage	0~0.2	0~2	0~20	0~200	0~1000	0~1200	V
$V_{OUT}$	Nominal output voltage	5±0.5%						V
$V_C$	Supply voltage	+12(±5%)						V
$I_C$	Current consumption	<15						mA
$V_D$	Insulation voltage	AC/50Hz/1min		2.5		kV		
$\epsilon_L$	Linearity	<0.5						%FS
$V_0$	Offset voltage	$T_A=25^\circ\text{C}$		<20		mV		
$V_{OT}$	Thermal drift of $V_0$	$V_P=0 \quad T_A=-25\sim+85^\circ\text{C}$		<±0.5		mV/°C		
$T_R$	Response time	90% of $V_{PN}$		<60		ms		
$T_A$	Ambient operating temperature	-25~+85						°C
$T_S$	Ambient storage temperature	-40~+100						°C
$R_L$	Load resistance	≥10						KΩ
$m$	Mass	23						g
	Standard	Q/320115QHKJ01-2013						

### Dimensions of drawing (mm)



Elucidation: 1:V<sub>IN</sub> 2:NC 3:V<sub>IN</sub> 4:+12V 5:0V(GND) 3:V<sub>OUT</sub> GIN:Gain adjustment

### Remarks

- Incorrect connection may lead to the damage of the sensor.
- V<sub>OUT</sub> is positive when the connection of V<sub>P</sub> according to the top diagram.
- Pulsating dc voltage is input voltage after rectifying not filter or the ripple content > 10% of the voltage signal