



LP-VS SELF POWERED VOLTAGE TRANSDUCER

LP-VSX3 TRIPLE SELF POWERED VOLTAGE TRANSDUCER

The LP-VS voltage transducer converts an ac voltage input into a dc output signal which is proportional to the rms calibrated rectified arithmetic mean of the input. Accurate measurement assumes a sinusoidal input waveform.

Power for the unit is derived from the input signal.

The LP-VSX3 consists of three independent LP-VS circuits in a single case.

Ordering information: LP-VS(X3), input voltage, output.

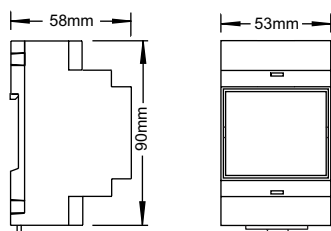
Example: LP-VS, input 0-250Vac, output 0-10mA.

Specifications

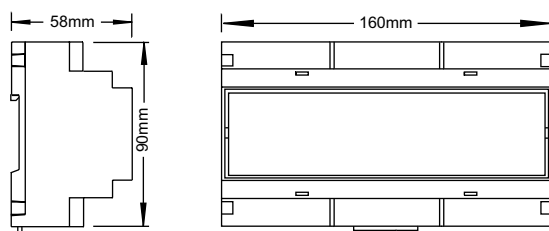
Inputs	Sinusoidal alternating voltage	
	Standard nominal range 0 - V_{nom}	: All ac system voltages to 500V
	Input burden	: <2VA for 0 - 20mA and 0 - 10V versions : <1.2VA for 0 - 10mA version
	Frequency range	: 50Hz, 60Hz
Outputs	Standard nominal outputs (others on request)	: 0 - 10mA dc <1500 Ω load : 0 - 20mA dc <750 Ω load : 0 - 5V dc >2k Ω load : 0 - 10V dc >2k Ω load
	Ripple	: <1% pk to pk of full span
	Response time	: <250ms 0 - 90% : <500ms 0 - 99%
	Load influence	: <0.25% of full span for specific load range
	Class 0.5 to IEC 60688	: $\pm 0.5\%$ of nominal output for specified range
	Accurate range	: 20% - 120% V_{nom} for current outputs : 25% - 120% V_{nom} for voltage outputs
Accuracy	Frequency influence	: <0.05% per Hz
	Drift	: < $\pm 0.5\%$ over the range 0°C to +60°C
Overload	Input	: 1.2 x V_{nom} continuous : 1.5 x V_{nom} for 10 seconds
	S/C output	: continuous
	O/C output	: continuous, $V_{o/c}$ <30V
	Maximum output	: <2 x nominal output
Isolation	Galvanic isolation between input and output circuits	
	Test voltage	: 4kV rms 50Hz for 1 minute
	Impulse	: 5kV 1.2/50 μ sec waveform
Temperature	Operating	: 0°C to +23°C to +60°C
	Storage	: -25°C to +70°C long term : -55°C to +85°C short term
EMC Compliance		: AS/NZS 61000.6.3:2012



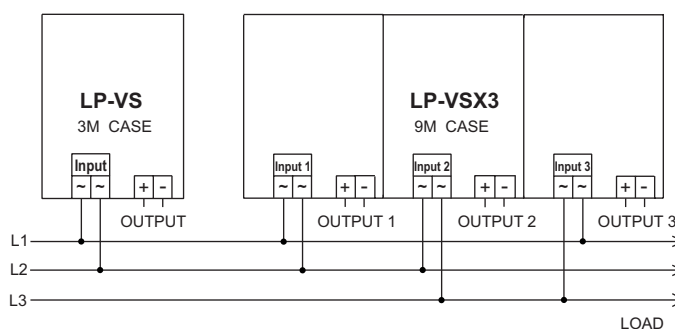
LP-VS Dimensions



LP-VSX3 Dimensions



Connections



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