



LP-IS SELF POWERED CURRENT TRANSDUCER

LP-ISX3 TRIPLE SELF POWERED CURRENT TRANSDUCER

The LP-IS current transducer converts an ac current 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-ISX3 consists of three independent LP-IS circuits in a single case.

Ordering information: LP-IS(X3), input current, output.

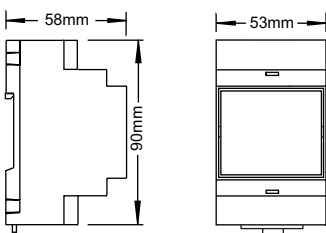
Example: LP-IS, input 0-5A, output 0-10mA

Specifications

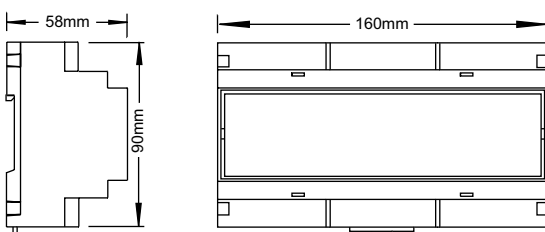
Inputs	Sinusoidal alternating current		
	Standard nominal ranges 0 - I_{nom}	: 0 - 1A, 0 - 5A (others on request)	
	Input burden	: <2VA for 0 - 20mA and 0 - 10V versions : <1.2VA for 0 - 10mA version	
	Frequency range	: 50Hz, 60Hz	
Outputs	Standard nominal outputs (others on request)	: 0 - 10mA dc <1500 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	
	Accuracy	Class 0.5 to IEC 60688	: $\pm 0.5\%$ of nominal output for specified range
		Accurate range	: 5 - 120% I_{nom} for current outputs : 20 - 120% I_{nom} for voltage outputs
Frequency influence		: <0.05% per Hz	
Drift		: $\pm 0.5\%$ over the range 0°C to +60°C	
Overload	Input	: $2 \times I_{nom}$ continuous : $20 \times I_{nom}$ for 3 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	



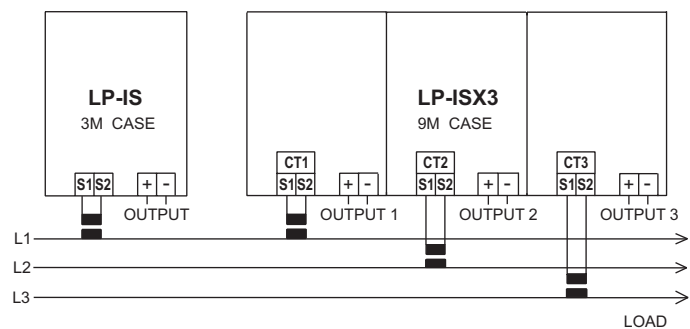
LP-IS Dimensions



LP-ISX3 Dimensions



Connections



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