



LP-IP SEPARATELY POWERED CURRENT TRANSDUCER

LP-IL LOOP POWERED CURRENT TRANSDUCER



The LP-IP and LP-IL current transducers convert an ac current input into an output signal which is proportional to the rms calibrated rectified arithmetic mean of the input.

Accurate measurement assumes a sinusoidal input waveform.

The LP-IP is powered from an external supply and the LP-IL is powered from the 4-20mA loop.

Ordering information: Input current
LP-IP output current/voltage range (i.e. 4-20mA, 0-10mA, 0-10V)
LP-IP supply (i.e. 110Vac, 230Vac, 24Vdc, 110Vdc)
LP-IP, input 0-5A, output 0-10mA, supply 230Vac.
LP-IL, input 0-1A.

Examples:

Specifications

Input	Sinusoidal alternating current	
	Standard nominal ranges $0-I_{nom}$: 0-1A, 0-5A (others on request)
	Input burden	: <0.1VA
	Frequency range	: 50Hz, 60Hz
Output	Load independent dc current or voltage LP-IP, load independent dc current LP-IL	
	LP-IP standard outputs	: 0-10 mA dc <1500 Ohms
	(others on request)	: 0-20mA dc <750 Ohms
		: 4-20mA dc <750 Ohms
		: 0-5V dc > 2k Ohms
		: 0-10V dc >2k Ohms
	LP-IL standard output	: 4-20mA dc <750 Ohms
	Response time	: 250ms 0-90%
		: <500ms 0-99%
	Load influence	: <0.25% of full span for specific load range
Accuracy	Ripple	: <1% peak to peak of full output span
	Class 0.5 to IEC 60688	: $\pm 0.5\%$ of nominal output for specified range
	Class 0.2 on request	
	Accurate range	: 0-120% I_{nom}
Overload	Drift	: $\pm 0.5\%$ over the range 0°C to +60°C
	Input	: $2 \times I_{nom}$ continuous
		: $20 \times I_{nom}$ for 3 seconds
Power Supply	LP-IP	: 24V, 110V, 230V or 240V ac $\pm 20\%$, 1.5VA
		: 24V dc $\pm 20\%$ or 110V/125V dc (88V-138V) 2W
	LP-IL	: 10-30V dc from the output loop
Isolation	Galvanic isolation between input, output and supply (LP-IP)	
	Galvanic isolation between input and output (LP-IL)	
	Test voltage	: 4kV rms 50Hz for 1 minute
	Impulse	: 5kV 1.2/50µsec 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
Housing	DIN rail mounting (EN 60715) according to DIN 43880	
	Material self extinguishing PPO (Noryl), colour grey RAL 7035	
Terminals	Rising clamp, suitable for stranded cable up to 2.5mm ² (14 AWG)	
EMC Approvals		: AS/NZS 61000.6.3:2012

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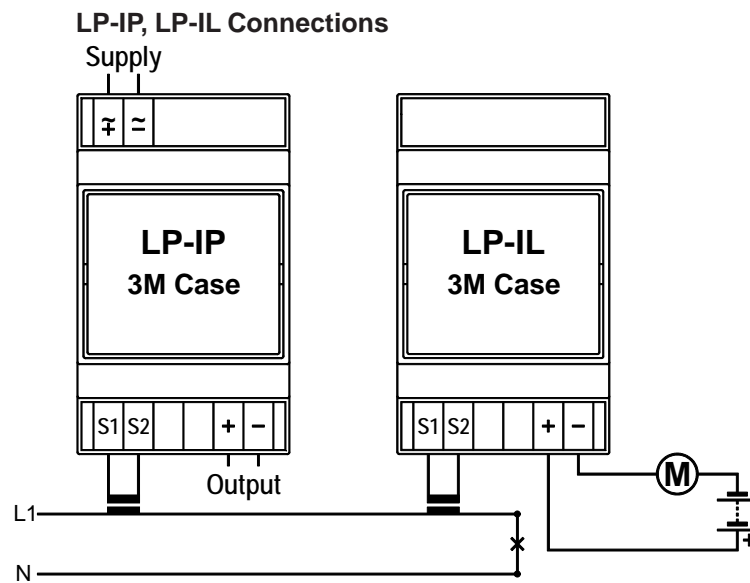
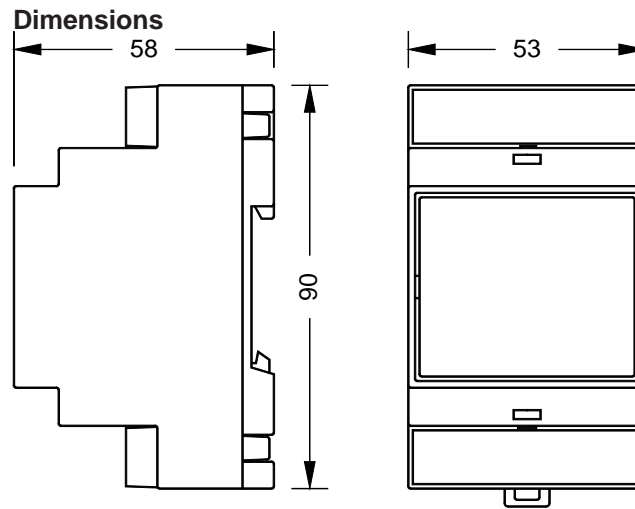
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*** NOTE** The LP-IL connections have changed from earlier supplied units. Always refer to the connection label on the LP-IL.