



LP-TPR TAP POSITION TRANSDUCER



The LP-TPR resistance type tap-position transducer converts a potentiometric voltage into a load independent dc current or voltage signal.

The unit provides an excitation voltage for the external resistor chain or potentiometer.

Power for the unit is derived from an external supply.

There is galvanic isolation between the input, output and power supply circuits.

Ordering information: Input, tap resistance and number of taps/tap range
Output current/voltage range (i.e. 4-20mA, 0-10mA, 0 to 10V)
and tap output value (i.e. tap 1 = 4mA, tap 17 = 20mA)
Supply (i.e. 110Vac, 230Vac, 24Vdc, 110Vdc)

Specifications

Input	DC voltage across a resistance potentiometer Excitation voltage : 1.25V - 10V dc Accurate range : 0 - 100% Input resistance : >1M Ohms
Output	Load independent dc current or voltage Standard nominal 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 Response time : 0.25ms 0 - 90% Load influence : <0.25% of full span for specific load range Ripple : <1% peak to peak of full output span
Accuracy	Class 1 to IEC 60688 : $\pm 1\%$ of nominal output for specified range
Supply	: 24V, 110V, 230V or 240V ac $\pm 20\%$, 1.5VA : 24V dc $\pm 20\%$ or 110V/125V dc (88V-138V) 2W
Isolation	Galvanic isolation between input, output and supply Test voltage : 4kV rms 50Hz for 1 minute Impulse : 5kV 1.2/50 μ sec waveform
Temperature	Operating : 0°C to <u>+23°C</u> to +60°C Storage : -25°C to +70°C long term : -55°C to +85°C short term
IP Rating	: Terminals IP20
EMC Compliance	: AS/NZS 61000.6.3:2012
Housing	Material self-extinguishing PP0 UL94V0, DIN 43880
Terminals	Rising clamp, nickered copper alloy clamp and terminal with galvanised steel screw Suitable for up to 2.5mm ² stranded conductor

CARREL ELECTRADE LTD

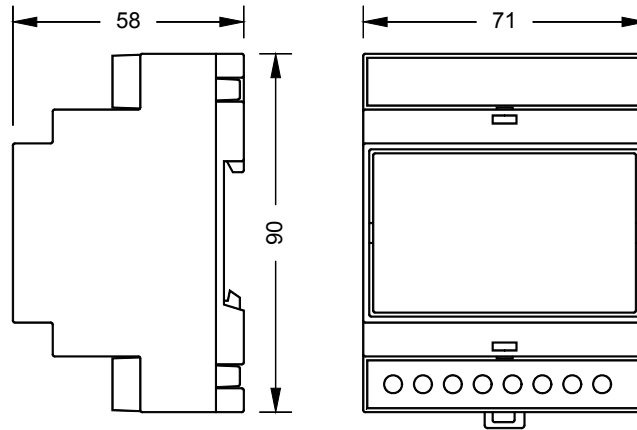
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Dimensions



LP-TPR Connections

