

5504

Thermocouple input module

- Eight J, K, E, T-type or 180mV inputs
- Optical Isolation for high reliability
- Integrated transient protection
- Linearized and cold junction compensated
- 3 year warranty on parts and labor



Product Data Sheet 5504

Specifications



5504 Thermocouple input module

General

Input Points	8 thermocouples or millivolt signals
Thermocouple Types and Ranges	J: -200°C to 760°C (-328°F to 1400°F) K: -270°C to 1370°C (-454°F to 2498°F) E: -270°C to 1000°C (-454°F to 1832°F) T: -270°C to 400°C (-454°F to 752°F) mV ±80mV
Resolution	0.004mV, approximately 0.10°C (0.18°F)
Input Resistance	1MΩ
Accuracy Over -40°C to 60°C Operating Temperature Range	J: ±0.20% of full scale K: ±0.20% of full scale E: ±0.15% of full scale T: ±0.50% of full scale mV ±0.15% of full scale
Cold Junction Compensation	<ul style="list-style-type: none"> ±0.5°C (0.9°F) maximum error from 0°C to 60°C (32°F to 140°F) ±1°C (1.8°F) maximum error from -40°C to 0°C (-40°F to 32°F)
Converter Type	±20000 count, integrating
Common Mode Voltage Range	±10V can be applied to the inputs, relative to the -24V power supply input
Isolation	500VAC from the logic power
Transient Protection	MOVs on each input
Response Time	0.5 seconds
Power Requirements	<ul style="list-style-type: none"> > 5V @40mA > 20 to 28V @ 45mA
Terminations	10 pole and 8 pole, two fixed terminal blocks, 12 - 22 AWG, 15 amp contacts
Dimensions	144mm wide x 118mm high x 44mm deep (5.65in. x 4.625in. x 1.75in.)
Mounting	7.5 x 35 DIN rail
Packaging	Corrosion resistant zinc plated steel with black enamel paint
Environment	5% RH to 95% RH, non-condensing, -40°C to 60°C (-40°F to 140°F)
Safety	Class 1, Division 2 for use in hazardous locations
Part Number	297166

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