

3721 Specifications

This section includes specifications for model 3721, which is a TMR Analog Input Module with a voltage range of 0 to 5 VDC or -5 to +5 VDC. The 3721 module can be installed only in Tricon v10.2 and later systems.

Table 14 3721 Analog Input Specifications

Feature	Specification
Color code	Yellow
Number of input signals	32 differential, DC-coupled
Input update rate	10 ms
Resolution	12 bits or 14 bits programmable
Accuracy	< 0.15% of FSR from 0° to 60° C
Input resistance (load)	10 M Ω (DC), minimum
Input resistance at power off	140 k Ω (DC), typical
Common mode rejection (typical)	-85 dB (DC - 100 Hz)
Common mode voltage range	-12V to +12V peak
Channel-to-channel isolation	420 k Ω , typical
Normal mode rejection	-3 dB @ 23 Hz -8 dB @ 60 Hz -14 dB @ 120 Hz
Input voltage range	0 to 5 or -5 to 5 VDC
Input over-range measurement	+6%, -5.3 to +5.3 VDC
Logic power	< 15 watts
Input over-range protection	150 VDC continuous, 115 VAC continuous
Input current range	0 to 20 mA with 250 Ω shunt resistor
Field to system isolation	800 VDC minimum
Module status indicators	Pass, Fault, Active, Field
Input diagnostic fault coverage ¹	
Minimum input change	2% of full scale
Input change sample period	20 ms
Minimum period of mis-compares	25 samples

1. Rapidly or continuously changing inputs may cause the time to detect a fault to increase. If an input sample changes by more than 0.25% from the previous sample the readings will not be compared.

Note The 3721 can be installed in low-density systems that have been upgraded to v10.2.x or later. For more information, see Appendix I, Low-Density Chassis I/O Module Compatibility in the *Field Terminations Guide for Tricon v9-v10 Systems*.