

TRICONEX SAFETY SYSTEM

Product Data Sheet

AI 3351

TMR analog input module

FUNCTION	FAMILY	ORIGIN	WEIGHT
TMR analog input module	Triconex safety system	United States	1.28 kg

Triconex AI 3351 is a TMR analog input module for the Triconex safety system. The values below are limited to the exact documented article.

01

VERIFIED TECHNICAL DATA

Module Type	TMR analog input module
Input Points	32 commoned channels
Nominal Input Current	4–20 mA DC
Operational Current Range	2–22 mA DC
Maximum Field Voltage	33 V DC
Maximum Reverse Voltage	–0.6 V DC
Maximum Input Current	50 mA DC
Input Bandwidth	16 Hz at –3 dB
Source Impedance	180 Ω
Input Impedance	250 Ω with baseplate

ADDITIONAL PRODUCT DATA

Conversion Resistor	100 Ω $\pm$ 0.01%
Resolution	12 bits
Absolute Error	0.15% of 20 mA full scale
Diagnostic Method	Force-to-value diagnostic
Scan Time	Less than 1 ms for all points

OFFICIAL APPLICATIONS

- Safety control: Configured shutdown and process-protection logic
- Field integration: Documented input, output or communication circuits
- Lifecycle service: Diagnostics and controlled replacement testing

SYSTEM COMPATIBILITY

Match AI 3351 to the installed Triconex safety system, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Trident Planning Installation Guide](#)

<https://www.se.com/ww/en/product-range/63717-triconex-safety-systems/>

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM