

TRICONEX SAFETY SYSTEM

Product Data Sheet

3704E

High-density analog input module

FUNCTION	FAMILY	ORIGIN	WEIGHT
High-density analog input module	Triconex safety system	United States	3 kg

Triconex 3704E is a High-density analog input module for the Triconex safety system. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Component Type	High-density analog input module
Order Reference	3704E
System Platform	Triconex safety control system
Primary Function	Acquires high-density analog voltages
Channel or Port Capacity	64 differential input points
Electrical Classification	0–5 V or 0–10 V DC
Compatible Hardware	Matching analog termination panel
Mounting Arrangement	Tricon I/O chassis
Connection Interface	DC-coupled differential channels
Diagnostic Coverage	Triplicated conversion and median voting

Documented Variant	Model 3704E analog input
Operating Environment	0 to 60 °C controller service
Storage Environment	–40 to 75 °C equipment storage
Relative Humidity	5 to 95% non-condensing
Commissioning Requirement	Verify every affected safety path

- Acquire 64 differential signals: Connect documented voltage transmitters to the DC-coupled channels while preserving polarity, shield and engineering scaling.
- Use the selected input range: Configure 0–5 V or 0–10 V operation to match the field source and alarm limits recorded for each point.
- Check conversion accuracy: Inject traceable values across representative channels and compare all three internal paths with the controller result.

Match 3704E to the installed Triconex safety system, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[Tricon Technical Product Guide](#)

<https://www.se.com/ww/en/work/products/industrial-automation-control/triconex-safety-systems/>

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM