

TRICONEX SAFETY SYSTEM

Product Data Sheet

3721N

Nuclear analog input module

FUNCTION Nuclear analog input module	FAMILY Triconex safety system	ORIGIN United States	WEIGHT 1.98 kg
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Triconex 3721N is a Nuclear 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	Nuclear analog input module
Order Reference	3721N
System Platform	Triconex safety control system
Primary Function	Differential process-signal acquisition
Channel or Port Capacity	32 TMR analog input points
Electrical Classification	0–5 V or –5 to +5 V DC
Compatible Hardware	9764-310N or 9783-110N panel
Mounting Arrangement	Tricon I/O chassis
Connection Interface	DC-coupled differential inputs
Diagnostic Coverage	Triplicated conversion and channel voting

ADDITIONAL PRODUCT DATA

Documented Variant	Nuclear equivalent of 3721
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

OFFICIAL APPLICATIONS

- Measure positive and negative voltages: Use the –5 to +5 V range for documented bidirectional process measurements.
- Unipolar loop service: Configure 0–5 V channels only where the field transmitter and scaling match.
- Analog accuracy check: Inject traceable values near both limits and the midpoint before returning the loop.

SYSTEM COMPATIBILITY

Match 3721N 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

[Tricon Technical Product Guide](#)

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

AMIKON PRODUCT SUPPORT

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