

TRICONEX SAFETY SYSTEM

Product Data Sheet

3502EN2

Nuclear digital input module

FUNCTION Nuclear digital input module	FAMILY Triconex safety system	ORIGIN United States	WEIGHT 2.02 kg
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Triconex 3502EN2 is a Nuclear digital 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 digital input module
Order Reference	3502EN2
System Platform	Triconex safety control system
Primary Function	Self-tested discrete input acquisition
Channel or Port Capacity	32 points in groups of eight
Electrical Classification	48 VAC or VDC field signals
Compatible Hardware	9562-810N termination panel
Mounting Arrangement	Tricon I/O chassis
Connection Interface	Commoned input groups
Diagnostic Coverage	TMR channel and stuck-ON diagnostics

ADDITIONAL PRODUCT DATA

Documented Variant	Nuclear equivalent of 3502E
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

- Read safety contacts at 48 volts: Maintain the eight-point common groups and validated On-Off thresholds.
- Stuck-ON detection: Use the module self-test to reveal an input that cannot return to the safe Off state.
- Nuclear loop proof: Exercise each connected contact and compare the module indication with the application variable.

SYSTEM COMPATIBILITY

Match 3502EN2 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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