

TRICONEX SAFETY SYSTEM

Product Data Sheet

3503EN2

Nuclear digital input module

FUNCTION Nuclear digital input module	FAMILY Triconex safety system	ORIGIN United States	WEIGHT 2.06 kg
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Triconex 3503EN2 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	3503EN2
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	24 VAC or VDC field signals
Compatible Hardware	9563-810N 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 3503E
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

- Acquire grouped permissive contacts: Connect switches and relays to their recorded point and common assignments.
- Self-test coverage: Confirm the stuck-ON diagnostic operates without changing the process demand.
- Nuclear commissioning: Prove all used points at the terminal panel, module and controller database.

SYSTEM COMPATIBILITY

Match 3503EN2 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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