

INDUSTRIAL AUTOMATION PRODUCT

T8403

Trusted TMR 24 VDC digital input module

24 VDC discrete safety and interlock input states

IDENTITY	VERIFIED VALUE
Manufacturer	ICS Triplex
System family	ICS Triplex Trusted TMR I/O
Part number	T8403
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named ICS Triplex product record.

PARAMETER	TECHNICAL VALUE
Module type	Digital input
Field voltage	24 V DC
Input architecture	Trusted TMR
Scan factor	4 ms
Input scaling	512 counts per volt
Default discrepancy threshold	250 counts

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Trusted controller chassis
Companion hardware	matching field termination assembly
Field connection	24 VDC field circuits
Primary system function	Acquires twenty-four-volt discrete field states
Controlled acceptance duty	Safety-interlock input acquisition

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System Role and Architecture

24 VDC discrete safety and interlock input states

FUNCTION 1

Acquires twenty-four-volt discrete field states

FUNCTION 2

Uses Trusted triple-modular-redundant processing

FUNCTION 3

Supports a four-millisecond scan factor

FUNCTION 4

Reports channel discrepancy for diagnostics

Matched system components

- Trusted controller chassis
- matching field termination assembly
- 24 VDC field circuits
- Trusted System configuration and diagnostics

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Trusted controller chassis
Companion hardware	matching field termination assembly
Field connection	24 VDC field circuits
Primary system function	Acquires twenty-four-volt discrete field states
Controlled acceptance duty	Safety-interlock input acquisition

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Applications and Engineering Context

Safety-interlock input acquisition

Acquires twenty-four-volt discrete field states

Emergency-shutdown field monitoring

Uses Trusted triple-modular-redundant processing

Trip-contact supervision

Supports a four-millisecond scan factor

Trusted TMR input-module replacement

Reports channel discrepancy for diagnostics

TECHNICAL NOTE

Record the T8403 slot, field-termination identity, channel mapping, discrepancy settings and 24 VDC commons; isolate field energy and prove every safety input before the application returns to service.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	T8403 / T8403 recorded
Physical interface	Trusted controller chassis
Companion check	matching field termination assembly
Functional proof	Acquires twenty-four-volt discrete field states
Application test	Safety-interlock input acquisition

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Engineering Precautions

1

Verify the complete T8403 marking and its assigned ICS Triplex Trusted TMR I/O position before work.

2

Place the connected safety-interlock input acquisition process in the approved maintenance state.

3

Isolate applicable power and 24 vdc discrete safety and interlock input states field energy before disconnecting conductors.

4

Record connector, conductor, address, firmware and software identities before removal.

5

Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Honeywell 51309355-001	Related industrial automation product	View Honeywell 51309355-001 page
Honeywell MU-PLAM02-51304362-100	Related industrial automation product	View Honeywell MU-PLAM02-51304362-100 page
Honeywell 8C-PDOD51-51454361-175	Related industrial automation product	View Honeywell 8C-PDOD51-51454361-175 page
Honeywell 8C-PDIL51-51454359-175	Related industrial automation product	View Honeywell 8C-PDIL51-51454359-175 page
Honeywell 10216-2-1	Related industrial automation product	View Honeywell 10216-2-1 page
Honeywell 10105-2-1	Related industrial automation product	View Honeywell 10105-2-1 page
Honeywell 10024-I-I	Related industrial automation product	View Honeywell 10024-I-I page
Honeywell 10001-A-1	Related industrial automation product	View Honeywell 10001-A-1 page

MANUFACTURER SOURCE RECORD

Rockwell Automation ICS Triplex Trusted TMR Processor and System Reference Manual
ICSTT-RM251

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