

# 9753-110

## Pulse Input / Pulse Totalizer Termination Panel

Triconex 9753-110 is a basic termination panel for pulse-input and pulse-totalizer modules. It routes field pulse signals to the selected Tricon processing module.

### PRODUCT SNAPSHOT

**BRAND**

Triconex

**FAMILY**

Tricon v9-v10 field termination

**PART**

9753-110

**ORIGIN / HS**

USA / 8537101190

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# PRODUCT OVERVIEW

Triconex 9753-110 is a basic termination panel for pulse-input and pulse-totalizer modules. It routes field pulse signals to the selected Tricon processing module.

- 1

Terminates eight balanced pulse-input channels from magnetic speed sensors
- 2

Reconfigures as a sixteen-point field interface for the 3515 pulse totalizer module
- 3

Carries differential IN+ and IN- conductors to the selected Tricon input module
- 4

Provides panel-level labeling for the assigned pulse or totalizer channel range

## SYSTEM COMPONENTS

3510 or 3511 pulse-input module

3515 pulse-totalizer input module

4000103-510 backplane cable

shielded twisted-pair field wiring

## RELATED PRODUCTS ON APTER POWER

| MODEL          | SYSTEM ROLE                               | APTER POWER PAGE                  |
|----------------|-------------------------------------------|-----------------------------------|
| Triconex 3504E | High-Density Digital Input Module         | <a href="#">Open product page</a> |
| Triconex 3008  | Main Processor Module                     | <a href="#">Open product page</a> |
| Triconex 4210  | Remote Extender Module Set                | <a href="#">Open product page</a> |
| Triconex 4119A | Enhanced Intelligent Communication Module | <a href="#">Open product page</a> |

## TECHNICAL DATA

| PARAMETER               | VALUE                           |
|-------------------------|---------------------------------|
| Panel type              | Basic                           |
| Pulse-input points      | 8                               |
| Pulse-totalizer points  | 16                              |
| Pulse-input terminals   | Differential IN+ / IN-          |
| Compatible PI modules   | 3510; 3511                      |
| Compatible PTI module   | 3515                            |
| 3510 frequency / update | 20 Hz to 20 kHz / 50 ms typical |

| PARAMETER               | VALUE                           |
|-------------------------|---------------------------------|
| 3511 frequency / update | 20 Hz to 20 kHz / 25 ms typical |
| 3515 frequency          | 0 to 1 kHz                      |
| 3515 module points      | 32                              |
| Panel width             | 3 in (7.62 cm)                  |
| Panel length            | 5 in (12.7 cm)                  |
| Panel height            | 4.25 in (10.795 cm)             |
| Associated cable        | 4000103-510                     |

### TECHNICAL NOTE

Select the eight-point PI or sixteen-point PTI wiring arrangement before landing conductors; short unused PI points and preserve the documented shield and terminating-resistor practice.

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### Turbine and compressor magnetic speed pickup termination

Terminates eight balanced pulse-input channels from magnetic speed sensors

### High-frequency rotating-equipment pulse measurement

Reconfigures as a sixteen-point field interface for the 3515 pulse totalizer module

### Thirty-two-point pulse-totalizer field termination

Carries differential IN+ and IN- conductors to the selected Tricon input module

### Tricon pulse-channel retrofit and loop verification

Provides panel-level labeling for the assigned pulse or totalizer channel range

## PRODUCT PRECAUTIONS

- 1 Verify 9753-110 and the selected PI or PTI duty before moving field conductors.
- 2 Place the rotating equipment and associated trip logic in the approved maintenance state.
- 3 Use IN+ and IN- as a balanced pair and retain the documented shield termination.
- 4 Short every unused pulse-input point as required by the field termination guide.
- 5 For 3515 service, use the approved sensor-output type and individually shielded pairs where required.
- 6 Confirm one panel serves eight PI points or sixteen PTI points; do not interchange the channel labels.
- 7 Inspect cable 4000103-510 seating and maintain its minimum bend radius.
- 8 Prove count direction, frequency or RPM scaling, and the intended trip response before release.

# ENGINEER FAQ

## Q1 Which installed hardware must be matched before fitting 9753-110?

Match 9753-110 to 3510 or 3511 pulse-input module and 3515 pulse-totalizer input module, then confirm the complete physical marking and assigned Tricon v9-v10 field termination position.

## Q3 What check is required for 3515 push-pull pulse-totalizer signals when commissioning 9753-110?

Apply a controlled signal or command within the documented range and compare the field result, controller indication, and product diagnostics before normal operation.

## Q5 How is unused-point shorting handled during a 9753-110 replacement?

Record the installed state first, isolate the associated process function, reproduce only the approved model-specific arrangement, and verify it before energization.

## Q7 Can 9753-110 be substituted for a similar Triconex model without a configuration review?

No. Confirm the exact model, companion hardware, signal execution, system version, and approved configuration before any substitution.

## Q2 How should an engineer verify 3510/3511 differential pulse wiring for 9753-110?

Use the approved connection drawing and the model-specific values in Field Terminations Guide for Tricon v9-v10 Systems; preserve the as-found terminal, connector, polarity, shield, and channel identity.

## Q4 Which installation error is most important to prevent on 9753-110?

Do not interchange 9753-110 with an adjacent execution or alter its matched 3510 or 3511 pulse-input module; the exact electrical, channel, and connector arrangement must be retained.

## Q6 Which diagnostics should be reviewed after installing 9753-110?

Review the applicable point, module, power, communication, or load indicators for 9753-110, then confirm the intended role: terminates eight balanced pulse-input channels from magnetic speed sensors.

## Q8 What evidence should be retained after frequency and RPM verification testing on 9753-110?

Retain the full 9753-110 identity, as-left connections or settings, final diagnostics, measured functional-test result, and authorization to return the affected process function to service.