

MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

TRICONEX

## 9563-810

DIGITAL INPUT TERMINATION PANEL

Used with the applicable Triconex safety system configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Tricon Technical Product Guide

# Product Specifications

| Model Number                                                            | Description                                                               | See This Standard Model |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------|
| 3805HC                                                                  | AO, 4–20 mA, current loop, DC-coupled, TMR, 8 pts.                        | 3805H                   |
| 3505EC                                                                  | DI, 24 VDC, low threshold, 32 pts.                                        | 3505E                   |
| 3503EC                                                                  | DI, 24 VAC/VDC, commoned in groups of 8, self-test, TMR, 32 pts.          | 3503E                   |
| 3564C                                                                   | DI, 0–5 VDC, single-ended, high-density, TMR, 64 pts.                     | 3564                    |
| 3664C                                                                   | DO, 24 VDC, commoned, opto-isolated, self-protected, dual, 32 pts.        | 3664                    |
| 3625C                                                                   | DO, 24 VDC, supervised/non-supervised, commoned, TMR, 32 pts.             | 3625                    |
| 3625AC                                                                  | DO, 24 VDC, supervised/non-supervised, commoned, TMR, 32 pts.             | 3625A                   |
| 3511C                                                                   | Pulse Input, differential, AC-coupled, TMR, 8 pts.                        | 3511                    |
| 3636TC                                                                  | Relay Output, normally open, non-triplicated, 32 pts.                     | 3636T                   |
| <b>External Termination Panels and FT4 Interface Cables<sup>b</sup></b> |                                                                           |                         |
| 9563-810FC                                                              | Term panel with cable 4000187-310; for use with 3503EC and 3505EC         | 9563-810F               |
| 9566-710FC                                                              | Term panel with cable 4000187-310; for use with 3564C                     | 9566-710F               |
| 9662-610FC                                                              | Term panel with cable 4000188-310; for use with 3625C, 3625AC, and 3664C  | 9662-610F               |
| 9668-110FC                                                              | Term panel with cable 4000188-110 <sup>c</sup> ; for use with 3636TC      | 9668-110F               |
| 9753-110FC                                                              | Term panel with cable 4000189-510; for use with 3511C                     | 9753-110F               |
| 9765-210FC                                                              | Term panel with cable 4000206-510; for use with 3720C                     | 9765-210F               |
| 9771-210FC                                                              | Term panel with cable 4000189-510; for use with 3700AC, 3703EC, and 3721C | 9771-210F               |
| 9853-610FC                                                              | Term panel with cable 4000190-510; for use with 3805HC                    | 9853-610F               |

a. For information about modules and chassis, see the *Planning and Installation Guide for Tricon v9–v10 Systems*.

b. For information about external termination panels and interface cables, see the *Field Terminations Guide for Tricon v9–v10 Systems*.

c. A low smoke zero halogen (LSZH) cable is also certified for use with the external termination assembly (ETA) that is included with model 9668-110FC. If you need the LSZH cable, order ETA 3000590-110C and LSZH cable 4000141-110, separately.

Module number in the first column with termination options on the right. An I/O module can be wired to a maximum of two termination  
be of two different types—for example, commoned and non-commoned.

| description          | Commoned<br>Term Panels                          | Non-Common.<br>Term Panels | Basic<br>Term Panels             | Nonincendive<br>Term Panels | RG 1.180<br>Term Panels | Fanned-out<br>Cables | Bypass<br>Panels   | ERT Loop-<br>Back<br>Cables/Panels |
|----------------------|--------------------------------------------------|----------------------------|----------------------------------|-----------------------------|-------------------------|----------------------|--------------------|------------------------------------|
| /VDC, 32 pts.        | 9561-810F                                        | 9561-110F                  | 9551-110F                        | n/a                         | n/a                     | 9101-010F            | n/a                | 9141-010F                          |
| VDC, 32 pts.         | 9562-810F                                        | n/a                        | 9552-610F                        | n/a                         | n/a                     | 9101-010F            | n/a                | 9142-010F                          |
| VDC, 32 pts.         | 9563-810F<br>9563-910F                           | n/a                        | 9553-610F                        | 9572-610F                   | n/a                     | 9101-010F            | BP9228-010F        | 9143-010F                          |
| XC,<br>64 pts.       | 9566-810F, 24V<br>9565-810F, 48V                 | n/a                        | 9750-310F, 24V<br>9750-410F, 48V | 9570-610F, 24V<br>n/a       | n/a                     | n/a                  | BP9229-010F<br>n/a | n/a                                |
| low threshold,       | 9563-810F<br>9563-910F                           | n/a                        | 9553-610F                        | 9572-610F                   | n/a                     | 9101-010F            | BP9228-010F        | 9143-010F                          |
| 0 Hz, 8 pts.         | n/a                                              | n/a                        | 9753-110F                        | n/a                         | n/a                     | n/a                  | n/a                | n/a                                |
| 0 Hz, 8 pts.         | n/a                                              | n/a                        | 9753-110F                        | 9793-110F                   | 9794-110F               | n/a                  | n/a                | n/a                                |
| π, 24 VDC,           | n/a                                              | n/a                        | 9753-110F                        | 9572-610F                   | n/a                     | n/a                  | n/a                | n/a                                |
| single, 64 pts.      | 9566-710F                                        | n/a                        | 9553-610F                        | 9571-610F                   | n/a                     | 9101-010F            | n/a                | n/a                                |
| 7, 16 pts.           | 9661-610F<br>9663-610F                           | 9661-110F<br>9664-110F     | 9651-110F                        | n/a                         | n/a                     | 9101-010F            | n/a                | 9670-110F<br>9670-610F             |
| 7, 16 pts.           | 9663-610F                                        | 9664-110F                  | n/a                              | n/a                         | n/a                     | n/a                  | n/a                | n/a                                |
| C, 16 pts.           | n/a                                              | 9251-210                   | n/a                              | n/a                         | n/a                     | n/a                  | n/a                | n/a                                |
| C, 16 pts.           | 9661-910F <sup>a</sup><br>9664-810F <sup>a</sup> | n/a                        | 9651-110F                        | n/a                         | n/a                     | 9101-010F            | n/a                | 9673-810F <sup>a</sup>             |
| C, 16 pts.           | 9664-810F <sup>a</sup>                           | n/a                        | n/a                              | n/a                         | n/a                     | n/a                  | n/a                | 9673-810F <sup>a</sup>             |
| 7, 16 pts.           | 9662-810F                                        | 9662-110F                  | 9653-610F                        | 9671-610F                   | n/a                     | 9101-010F            | n/a                | 9671-810F                          |
| 7, 16 pts.           | 9667-810F                                        | 9667-110F                  | 9652-610F                        | n/a                         | n/a                     | 9101-010F            | n/a                | 9672-810F                          |
| 7, 8 pts.            | 9661-510F                                        | n/a                        | n/a                              | n/a                         | n/a                     | n/a                  | n/a                | n/a                                |
| C, 8 pts.            | 9661-810F                                        | n/a                        | n/a                              | n/a                         | n/a                     | n/a                  | n/a                | n/a                                |
| 7, 8 pts.            | 9662-910F                                        | n/a                        | n/a                              | n/a                         | n/a                     | n/a                  | n/a                | n/a                                |
| 7, low power,        | 9662-710F                                        | n/a                        | n/a                              | n/a                         | n/a                     | n/a                  | n/a                | n/a                                |
| 7, 8 pts.            | 9667-910F                                        | n/a                        | n/a                              | n/a                         | n/a                     | n/a                  | n/a                | n/a                                |
| C, 16 pts.           | 9661-910F                                        | n/a                        | 9651-110F                        | n/a                         | n/a                     | 9101-010F            | n/a                | n/a                                |
| C, 16 pts.           | 9664-810F                                        | n/a                        | n/a                              | n/a                         | n/a                     | n/a                  | n/a                | n/a                                |
| 7, self-protected,   | 9662-610F                                        | n/a                        | 9653-610F                        | 9671-610F                   | n/a                     | 9101-010F            | n/a                | n/a                                |
| 7, self-protected,   | 9662-610F                                        | n/a                        | 9653-610F                        | 9671-610F                   | n/a                     | 9101-010F            | n/a                | 9671-810F <sup>b</sup>             |
| ed), 32 pts.         | n/a                                              | 9668-110F                  | 9651-110F                        | n/a                         | n/a                     | 9101-010F            | n/a                | n/a                                |
| VDC, self-protected, | 9662-610F                                        | n/a                        | 9653-610F                        | 9671-610F                   | n/a                     | 9101-010F            | n/a                | 9671-810F <sup>b</sup>             |

# Part Number Cross-Reference

The table below identifies the external termination assembly (ETA) part number and the cable part number for each termination panel model number.

There are four cable types included in this table:

- **FT4:** Ninety-degree cables that meet FT4 flame test ratings. Add “F” at the end of the base model number to obtain the complete model number. For example, 9551-110F.
- **Z:** Zero-degree cables, designed to be used with G-Series Enclosures for Tricon systems that have front access. Add “F-Z” at the end of the base model number to obtain the complete model number. For example, 9551-110F-Z.
- **LSZH:** Low Smoke Zero Halogen ninety-degree cables. Add “J” at the end of the base model number to obtain the complete model number. For example, 9551-110J.
- **FT1:** Ninety-degree cables that were shipped with pre-FT4 ETP models. These models did not include a letter at the end of the base model number.

## Part Number Cross-Reference—ETPs

| Base Model # | ETA         | FT4 Cable   | Z Cable     | LSZH Cable  | FT1 Cable (Old) |
|--------------|-------------|-------------|-------------|-------------|-----------------|
| 9551-110     | 3000400-160 | 4000187-110 | 4000192-110 | 4000140-110 | 4000093-110     |
| 9552-610     | 3000400-260 | 4000187-210 | 4000192-210 | 4000140-210 | 4000093-210     |
| 9553-610     | 3000400-360 | 4000187-310 | 4000192-310 | 4000140-310 | 4000093-310     |
| 9561-110     | 3000560-110 | 4000187-110 | 4000192-110 | 4000140-110 | 4000093-110     |
| 9561-810     | 3000510-180 | 4000187-110 | 4000192-110 | 4000140-110 | 4000093-110     |
| 9562-810     | 3000510-280 | 4000187-210 | 4000192-210 | 4000140-210 | 4000093-210     |
| 9563-810     | 3000510-380 | 4000187-310 | 4000192-310 | 4000140-310 | 4000093-310     |
| 9563-910     | 3000510-390 | 4000187-310 | 4000192-310 | 4000140-310 | 4000093-310     |
| 9565-810     | 3000540-280 | 4000187-210 | 4000192-210 | 4000140-210 | 4000093-210     |
| 9566-710     | 3000530-380 | 4000187-310 | 4000192-310 | 4000140-310 | 4000093-310     |
| 9566-810     | 3000540-380 | 4000187-310 | 4000192-310 | 4000140-310 | 4000093-310     |
| 9570-610     | 3000768-370 | 4000195-310 | 4000199-310 | n/a         | 4000165-310     |
| 9571-610     | 3000768-390 | 4000195-310 | 4000199-310 | n/a         | 4000165-310     |
| 9572-610     | 3000771-380 | 4000195-310 | 4000199-310 | n/a         | 4000165-310     |
| 9651-110     | 3000410-160 | 4000188-110 | 4000193-110 | 4000141-110 | 4000094-110     |
| 9652-610     | 3000410-260 | 4000188-210 | 4000193-210 | 4000141-210 | 4000094-210     |
| 9653-610     | 3000410-360 | 4000188-310 | 4000193-310 | 4000141-310 | 4000094-310     |
| 9661-110     | 3000570-110 | 4000188-110 | 4000193-110 | 4000141-110 | 4000094-110     |
| 9661-510     | 3000550-160 | 4000188-110 | 4000193-110 | 4000141-110 | 4000094-110     |