

Pulse Input and Pulse Totalizer Input Term Panels

This section describes pulse input and pulse totalizer input term panels.

Model numbers of these term panels are:

- 9753-110 (8 PI pts./16 PTI pts.)

This figure represents a typical 8-point pulse input or 16-point pulse totalizer input termination panel.

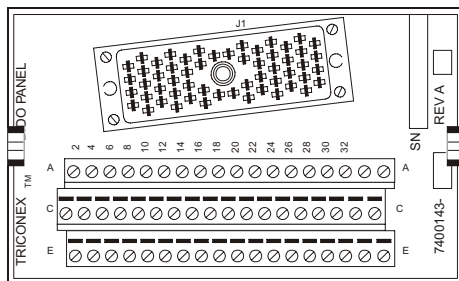


Figure 36 Typical 8-Point Pulse Input or 16-Point Pulse Totalizer Input Term Panel

9753-110 (8 PI pts./16 PTI pts.)

Termination panel 9753-110 is compatible with pulse input modules and pulse totalizer input modules.

When used with pulse input modules, 9753-110 has 8 differential-input signal terminals (IN+ and IN-).

When used with pulse totalizer input modules, 9753-110 has 16 input signal terminals (IN+ and IN-). The pulse totalizer input modules compatible with 9753-110 have 32 points, which means you must use two term panels for each pulse totalizer input module.

Specifications

This table describes specifications for 9753-110.

Table 46 Specifications for Term Panel 9753-110

Feature	Description
Panel type	Basic
Points	8 when used with pulse input modules 16 when used with pulse totalizer input modules

Compatible Modules

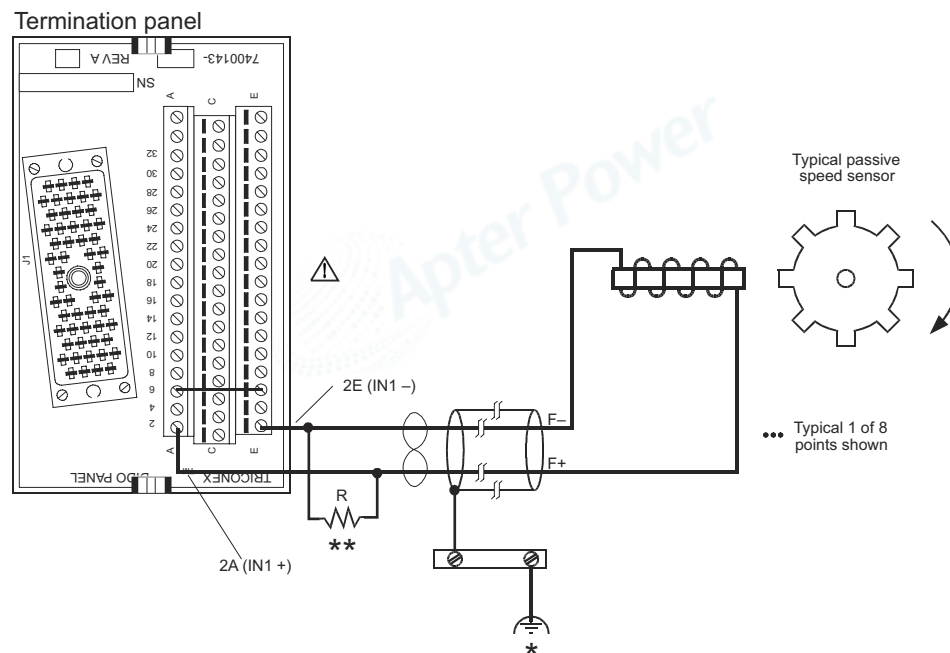
This table describes pulse input and pulse totalizer input modules compatible with 9753-110.

Table 47 Modules Compatible with 9753-110

Module Part Number	Points per Module	Module Description
3510	8	20 Hz to 20 KHz pulse input, non-commoned, AC-coupled, 50 ms typical input update rate
3511	8	20 Hz to 20 KHz pulse input, non-commoned, AC-coupled, 25 ms typical input update rate
3515	32	0 to 1 kHz pulse totalizer input, non-commoned

Field Wiring Diagrams

This figure illustrates how to connect an 8-point pulse input module and a 9753-110 to the field.



* Functional earth ground (quiet ground) is recommended for shield connections.
For shield grounding instructions, see Appendix E.

** When possible, install a terminating resistor as shown. For further information, see Technical Application Note (TAN) #006.

Figure 37 Field Wiring for 9753-110 with a 3510 or 3511 PI Module

CAUTION

Unused points must be shorted together.

This figure illustrates how to connect a 32-point pulse totalizer input module and a 9753-110 to the field.

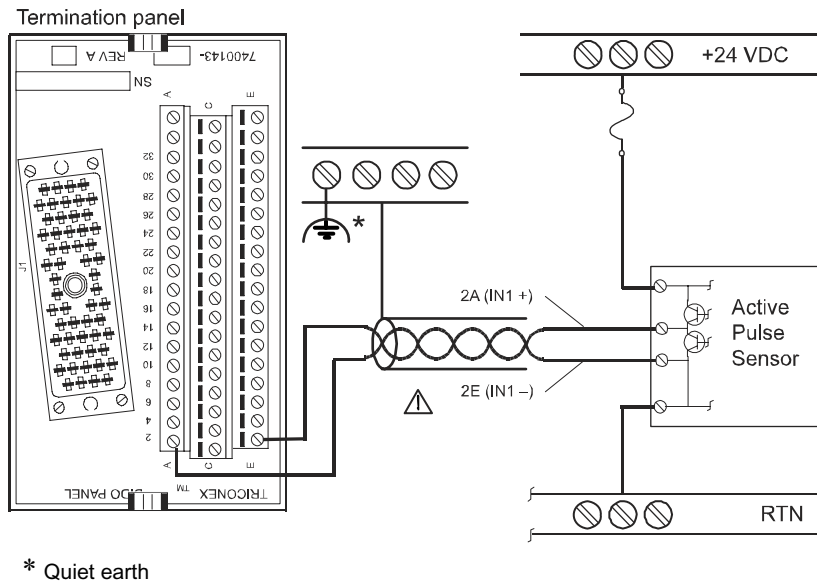


Figure 38 Field Wiring for 9753-110 with a 3515 Pulse Totalizer Input Module

CAUTION

With the 3515 pulse totalizer input module, sensor pulse outputs should be the push-pull type. You may use high-side or low-side, solid-state output, but maximum frequency may be reduced based on cable distance. Do not use mechanical relay/switch contacts. To prevent point-to-point cross-talk, use individually shielded, twisted-pair wire for lengths greater than 50 feet (15 meters).

Simplified Schematics

This is a simplified schematic of a typical 64-point analog input module with a basic current input panel (1 of 64 module points shown).

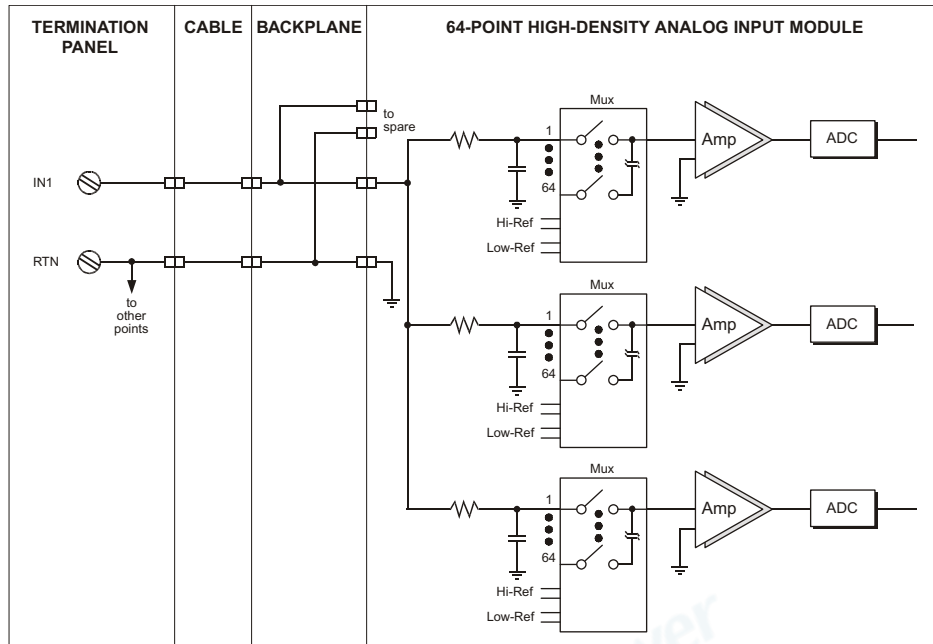


Figure 169 Simplified Schematic of a 3704E or 3720 AI Module with a 9750-810 Panel

9753-110 (0-5 VDC/0-10 VDC voltage input, basic, 16 pts.)

Termination panel 9753-110 is compatible with 0 to 5 VDC, -5 to +5 VDC, or 0 to 10 VDC analog input modules and has 16 voltage input terminals (IN+ and IN-) and commoned return terminals (RTN).

When using 32 point modules, you must use two term panels for each module. Each term panel comes with two sets of labels: 1-16 and 17-32. For information on how to apply the labels, see [Appendix F, Panel Labels](#).

Specifications

This table describes specifications for 9753-110.

Table 131 Specifications for Term Panel 9753-110

Feature	Description
Panel type	Voltage input, basic
Points	16

Compatible Modules

This table describes analog input modules compatible with 9753-110.

Table 132 Modules Compatible with 9753-110

Module Part Number	Points per Module	Module Description
3700	32	0-5 VDC, non-commoned, differential, DC-coupled, TMR
3700A	32	0-5 VDC, non-commoned, differential, DC-coupled, TMR
3701	32	0-10 VDC, non-commoned, differential, DC-coupled, TMR
3703E	16	0-5 VDC or 0-10 VDC (Use TriStation to configure for 0-5 VDC or 0-10 VDC), non-commoned, differential, isolated, TMR
3721	32	0 to 5 VDC or -5 to +5 VDC (Use TriStation to configure input range), differential, DC-coupled, TMR

Field Wiring Diagrams

This figure illustrates how to connect a 16-point or 32-point analog input module and a 9753-110 to the field (1 of 16 or 32 module points shown).

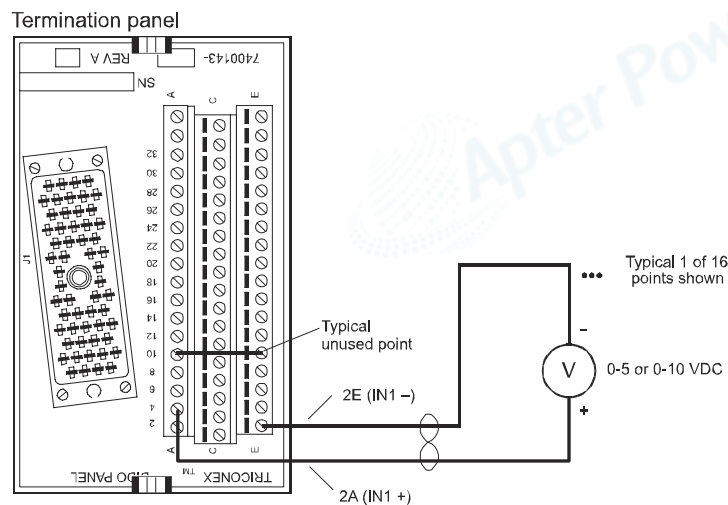


Figure 170 Field Wiring for 9753-110 with a 3700, 3700A, 3701, 3703E, or 3721 AI Module

CAUTION

Unused points must be shorted together.

Simplified Schematics

This is a simplified schematic of a typical 32-point analog input module with a basic current input panel (1 of 32 module points shown).

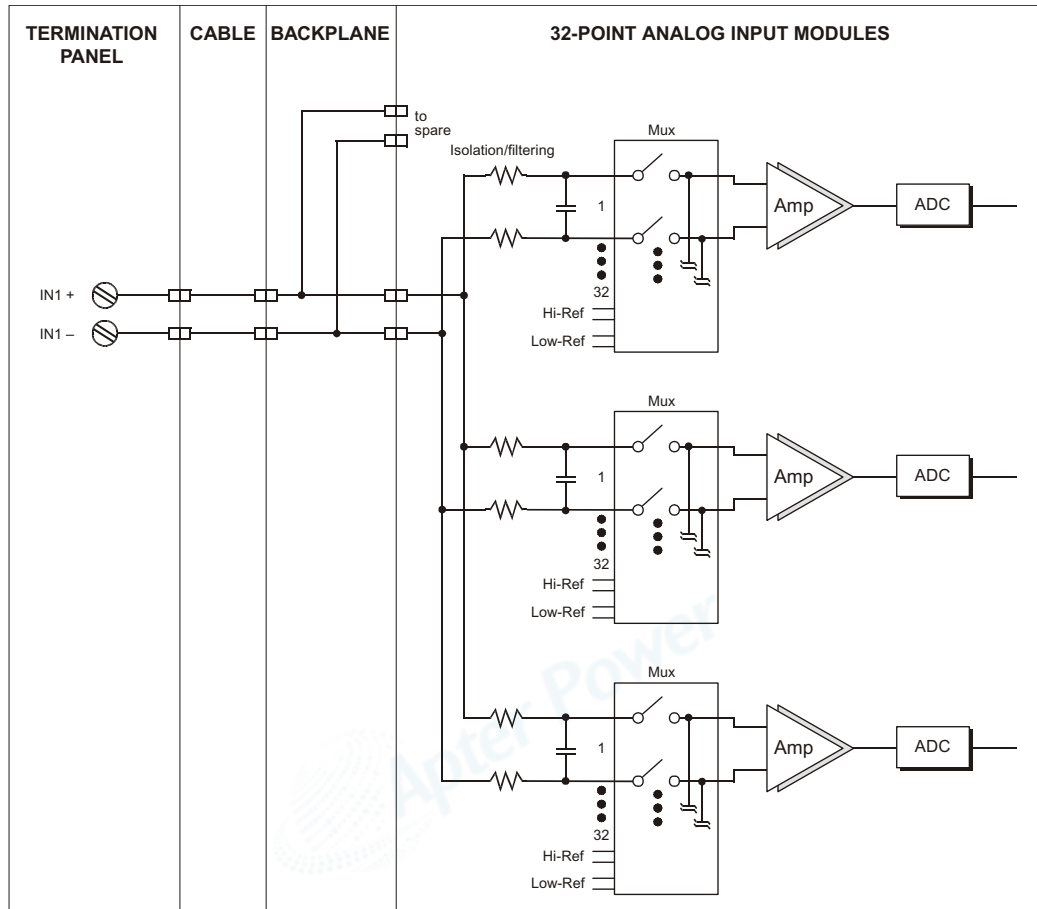


Figure 171 Simplified Schematic of a 3700, 3700A, 3701, or 3721 AI Module with a 9753-110 Panel

Table 220 Panel Dimensions *(continued)*

Panel Model	Width (across DIN rail)	Length (along DIN rail)	Height (out from DIN rail)
9662-910	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9663-610	4.5 in (11.43 cm)	7.75 in (19.685 cm)	4.25 in (10.795 cm)
9664-110	4.5 in (11.43 cm)	9.88 in (25.08 cm)	4.25 in (10.795 cm)
9664-810	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9667-110	4.5 in (11.43 cm)	7.75 in (19.685 cm)	4.25 in (10.795 cm)
9667-610	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9667-710	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9667-810	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9667-910	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9668-110	4.5 in (11.43 cm)	7.75 in (19.685 cm)	4.25 in (10.795 cm)
9670-110	7 in (17.78 cm)	19 in (48.26 cm)	4.75 in (12.065 cm)
9670-610	7 in (17.78 cm)	19 in (48.26 cm)	4.75 in (12.065 cm)
9671-610	4.42 in (11.23 cm)	5.02 in (12.75 cm)	4.25 in (10.795 cm)
9671-810	7 in (17.78 cm)	19 in (48.26 cm)	4.75 in (12.065 cm)
9672-810	7 in (17.78 cm)	19 in (48.26 cm)	4.75 in (12.065 cm)
9673-810	7 in (17.78 cm)	19 in (48.26 cm)	4.75 in (12.065 cm)
9750-210	3 in (7.62 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9750-310	3 in (7.62 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9750-410	3 in (7.62 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9750-810	3 in (7.62 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9753-110	3 in (7.62 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9760-210	4.5 in (11.43 cm)	10 in (25.4 cm)	4.25 in (10.795 cm)
9760-410	4.5 in (11.43 cm)	10 in (25.4 cm)	4.25 in (10.795 cm)
9761-210	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9761-410	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9762-210	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9762-410	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9763-810	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9764-310	5.22 in (13.26 cm)	19 in (48.26 cm)	3.24 in (8.23 cm)
9765-210	4.5 in (11.43 cm)	10 in (25.4 cm)	4.25 in (10.795 cm)
9765-610	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)
9766-210	4.5 in (11.43 cm)	5 in (12.7 cm)	4.25 in (10.795 cm)

Table 221 Part Number Cross-Reference *(continued)*

Model #	ETA	Cable
9661-610	3000520-160	4000094-110
9661-710	3000520-190	4000094-110
9661-810	3000550-180	4000094-110
9661-910	3000520-180	4000094-110
9662-110	3000570-310	4000094-310
9662-610	3000520-390	4000094-310
9662-710	3000550-390	4000094-310
9662-810	3000520-380	4000094-310
9662-910	3000550-380	4000094-310
9663-610	3000725-160	4000094-110
9664-110	3000726-110	4000094-110
9664-810	3000520-170	4000094-110
9667-110	3000570-710	4000094-210
9667-610	3000520-290	4000094-210
9667-710	3000520-260	4000094-210
9667-810	3000520-280	4000094-210
9667-910	3000550-280	4000094-210
9668-110	3000590-110	4000094-110
9670-110	3000290-110	4000111-110
9670-610	3000290-160	4000111-110
9671-610	3000769-390	4000166-310
9671-810	3000290-380	4000111-310
9672-810	3000290-280	4000111-210
9673-810	3000290-181	4000111-110
9750-210	3000420-120	4000093-510
9750-310	3000420-310	4000093-310
9750-410	3000420-410	4000093-210
9750-810	3000420-180	4000093-510
9753-110	3000400-510	4000103-510
9760-210	3000470-510	4000093-510
9760-410	3000470-530	4000093-510
9761-210	3000510-510	4000103-510