

# The Perfect Match

Pepperl+Fuchs' H-System for EcoStruxure™  
Triconex® by Schneider Electric

Pepperl+Fuchs' Intrinsic Safety Termination  
Board Solutions customized for Tricon

[www.schneider-electric.pepperl-fuchs.com](http://www.schneider-electric.pepperl-fuchs.com)

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Your automation, our passion.

**pf** PEPPERL+FUCHS

# Partnering for the Ultimate in Safety and Success

Schneider Electric's partnership with Pepperl+Fuchs has allowed to introduce a standard in industry safety many years ago. Pepperl+Fuchs' H-System for Tricon is listed by Triconex in the TAN48 as a fully tested, approved and till date a widely adopted and preferred solution. The space-saving H-System barriers and termination boards provide the densest solution in the market when space for intrinsic safety barriers is a critical issue.



Termination boards are available with intrinsically safe wiring terminals and a Triconex-specific ELCO plug connector to standardize the cabinet layout and maximize spacing.



HiC modules snap onto termination boards using a plug & lock installation, requiring no tools or wiring. The narrow interface provides the highest possible signal density while low power dissipation keeps the cabinet cool.

## H-System Intrinsic Safety Modules for EcoStruxure™ Triconex® - Tricon

- HiC modules with just 12.5 mm width, providing maximum cabinet space savings
- Single-channel HiC modules for single-loop integrity
- Dual- and four-channel HiD modules for greater density and savings
- Customized termination board with specific ELCO connectors and H-System intrinsic safety modules for Triconex Tricon I/O safety system
- The prewired termination board using Tricon system cables, keeps planning and wiring to a minimum

## Plug and play—for every process control system

Pepperl+Fuchs' H-System isolated intrinsic safety barriers for EcoStruxure™ Triconex® - Tricon plug into customized termination boards.

The termination boards contain the appropriate plug-in ELCO connector or Sub D for the new Tricon CX.

H-System is the most thoroughly tested and documented intrinsic safety solution for a DCS or ESD system.

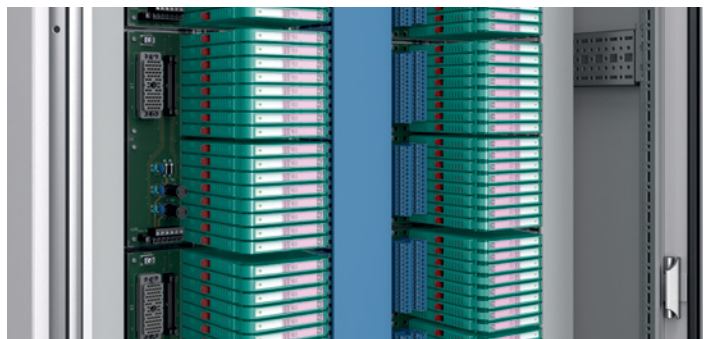
This extensive testing ensures the ultimate in safety, reliability, and confidence in your hazardous location ESD.

Customized termination board solutions also available for EcoStruxure™ Triconex® - Tricon CX and Foxboro DCS.

The H-System is globally certified and supported and offers the only universal barrier solution for both safety and control.

## Schneider Electric and Pepperl+Fuchs—Partners in Industrial Automation

Schneider Electric, worldwide specialist in energy management and industrial automation, and Pepperl+Fuchs, global explosion protection technology expert, have enjoyed a partnership for more than 30 years. As part of the Technology Partner Program (TPP), Pepperl+Fuchs also offers a complete range of automation solutions for Schneider Electric's EcoStruxure™ and the process automation industry.



Redefining termination board technology

## A Seamless Portfolio

As a partner with Schneider Electric, Pepperl+Fuchs serves as the main vendor for:

- Intrinsic safety galvanic isolators
- Signal conditioners
- HART multiplexer solutions
- FOUNDATION Fieldbus
- PROFIBUS
- Purge and pressurization
- Special-purpose HMI solutions
- Intrinsically safe mobile devices



Triconex		Pepperl+Fuchs						
Tricon		Module				Termination Board		
Card	Channel	Type	Features	SIL	Channel	Type	Modules	Channel
<b>Digital Input</b>								
<b>3503E (32)</b> <b>3505E (32)</b>	<b>16 + 16</b>	HiC2821	RelayOut	SIL2	1	HiCTB16-TRI-DIIS-EL-PL	16	16
<b>3504E (64)</b> <b>3564 (64)</b>	<b>32 + 32</b>	HiC2821	RelayOut	SIL2	1	HiCTB32-TRI-DIIS-EL-PL	32	32
		HiC2822	RelayOut	SIL2	2	HiCTB16-TRI-DIIS-EL-PL	16	32
		HiD2824	RelayOut	SIL2	4	HiDTB08-TRI-DIISQ-EL-SC	8	32
		HiD2844	TransOut	SIL2	4	HiDTB08-TRI-DIISQ-EL-SC	8	32
<b>Digital Output</b>								
<b>3604E (16)</b> <b>3624 (16)</b>	<b>16</b>	HIC2873	40mA @ 12VDC, Test P. Immunity	SIL3	1	HiCTB16-TRI-DOIS-EL-PL-Y1	16	16
		HIC2877	40mA @ 11,2VDC, Test P. Immunity	SIL3	1	HiCTB16-TRI-DOIS-EL-PL-Y1	16	16
		HIC2883	45mA @ 12VDC, Test P. Immunity, LFT	SIL3	1	HiCTB16-TRI-DOIS-EL-PL-Y1	16	16
		HiD2872	40mA @ 12VDC, Test P. Immunity	SIL3	2	HiDTB08-TRI-DOISD-EL-PL-Y1	8	16
		HiD2876	40mA @ 11,2VDC, Test P. Immunity	SIL3	2	HiDTB08-TRI-DOISD-EL-PL-Y1	8	16
		HIC5861	Safety Relay DTS, Non-I.S., LFT	SIL3	1	HiCTB16-TRI-DOIS-EL-PL-Y1	16	16
		HIC5863	Safety Relay ETS, Non-I.S., LFT	SIL3	1	HiCTB16-TRI-DOIS-EL-PL-Y1	16	16
<b>3625 (32)</b> <b>3664 (32)</b>	<b>16 + 16</b>	HIC2873	40mA @ 12VDC, Test P. Immunity	SIL3	1	HiCTB16-TRI-DOIS-EL-PL-Y1	16	16
		HIC2877	40mA @ 11,2VDC, Test P. Immunity	SIL3	1	HiCTB16-TRI-DOIS-EL-PL-Y1	16	16
		HIC2883	45mA @ 12VDC, Test P. Immunity, LFT	SIL3	1	HiCTB16-TRI-DOIS-EL-PL-Y1	16	16
		HiD2872	40mA @ 12VDC, Test P. Immunity	SIL3	2	HiDTB16-TRI-DOISD-EL-PL-Y2	16	32
		HiD2876	40mA @ 11,2VDC, Test P. Immunity	SIL3	2	HiDTB16-TRI-DOISD-EL-PL-Y2	16	32
		HIC5861	Safety Relay DTS, Non-I.S., LFT	SIL3	1	HiCTB16-TRI-DOIS-EL-PL-Y1	16	16
		HIC5863	Safety Relay ETS, Non-I.S., LFT	SIL3	1	HiCTB16-TRI-DOIS-EL-PL-Y1	16	16
		HIC2873	40mA @ 12VDC, Test P. Immunity	SIL3	1	HiCTB32-TRI-DOIS-EL-PL-Y1	32	32
		HIC2877	40mA @ 11,2VDC, Test P. Immunity	SIL3	1	HiCTB32-TRI-DOIS-EL-PL-Y1	32	32
		HIC2883	45mA @ 12VDC, Test P. Immunity, LFT	SIL3	1	HiCTB32-TRI-DOIS-EL-PL-Y1	32	32
		HIC5861	Safety Relay DTS, Non-I.S., LFT	SIL3	1	HiCTB32-TRI-DOIS-EL-PL-Y2	32	32
		HIC5863	Safety Relay ETS, Non-I.S., LFT	SIL3	1	HiCTB32-TRI-DOIS-EL-PL-Y3	32	32
		<b>Analog Input</b>						
<b>3700A (32)</b> <b>3701 (32)</b> <b>3721 (32)</b> <b>3704E (64)</b>	<b>16 + 16</b> <b>32 + 32</b>	HIC2025		SIL2	1	HiCTB16-TRI-AIIS-EL-PL	16	16
		HIC2025A	for Fire Detectors ( $I_0 = 93 \text{ mA}$ )	SIL3	1	HiCTB16-TRI-AIIS-EL-PL	16	16
		HIC2025ES		SIL3	1	HiCTB16-TRI-AIIS-EL-PL	16	16
		HID2022		SIL2	2	HiDTB08-TRI-AIISD-EL-PL	8	16
<b>Temperature Input</b>								
<b>3700A (32)</b> <b>3701 (32)</b> <b>3721 (32)</b>	<b>16 + 16</b>	HIC2081		SIL2	1	HiCTB16-TRI-AIIS-EL-PL	16	16
		HID2082		SIL2	2	HiDTB08-TRI-AIISD-EL-SC	8	16
		HID2082		SIL2	2	HiDTB08-TRI-AIISD-EL-PL	8	16
<b>3703E (16)</b>	<b>16</b>	HID2082		SIL2	2	HiDTB08-TRI-AIISD-EL-PL	8	16
<b>3704E (64)</b>	<b>32 + 32</b>	HID2082		SIL2	2	HiDTB08-TRI-AIISD-EL-SC	8	16
		HIC2081		SIL2	1	HiCTB16-TRI-AIIS-EL-PL	16	16
<b>Analog Output</b>								
<b>3805E (8)</b>	<b>8</b>	HIC2031		SIL2	1	HiCTB08-TRI-AOIS-EL-PL	8	8
		HIC2031ES		SIL3	1	HiCTB08-TRI-AOIS-EL-PL	8	8

# Your automation, our passion.

## Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus
- Remote I/O Systems
- Electrical Ex Equipment
- Purge and Pressurization
- Industrial HMI
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

## Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity

Pepperl+Fuchs Quality  
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