



PLUG AND PLAY WITH H-SYSTEM



H-SYSTEM – YOUR CUSTOMIZED SOLUTION

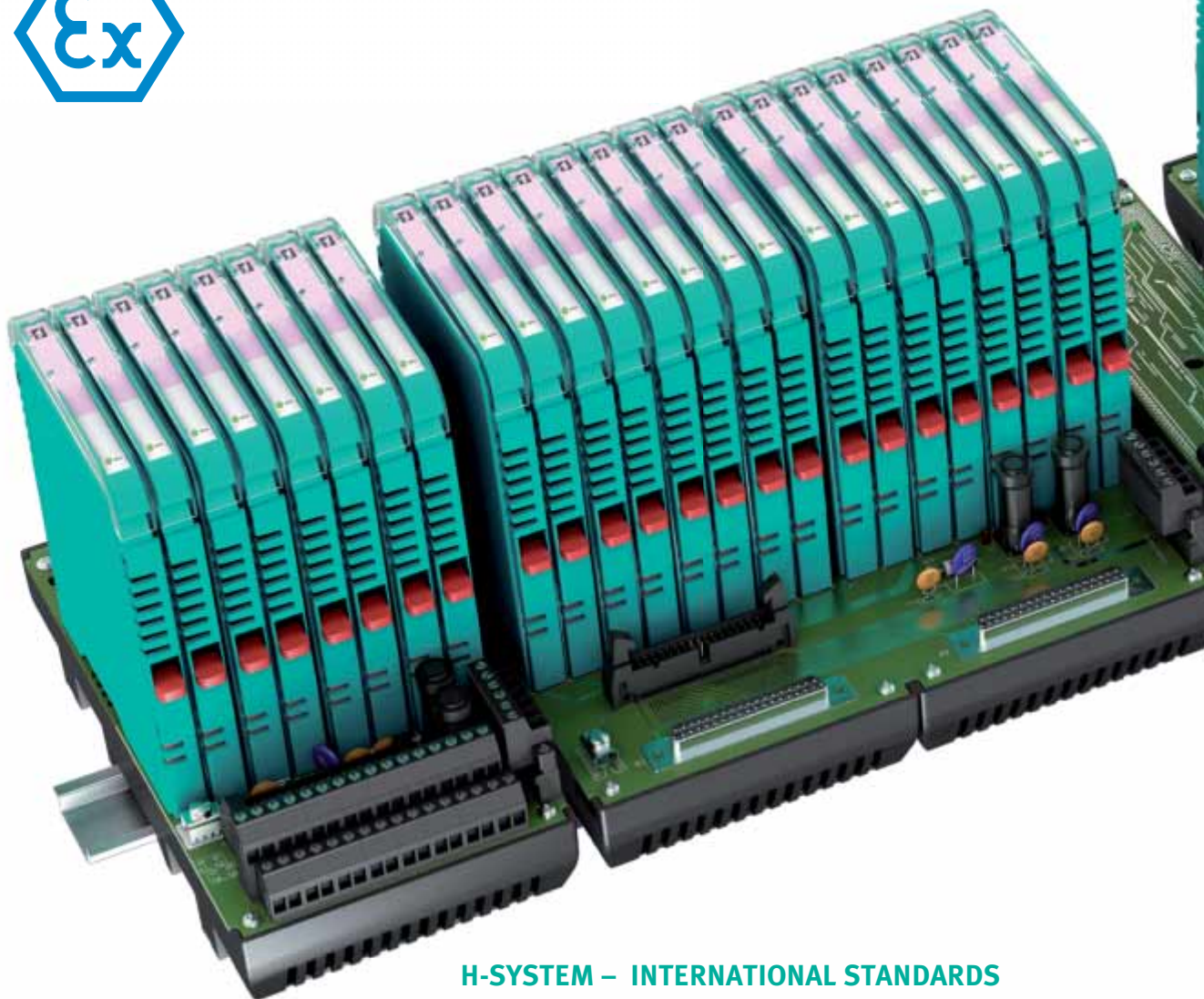
Since its founding 60 years ago Pepperl+Fuchs heritage of innovation has enabled us to establish and maintain a world-leading position as a supplier for conventional intrinsic safety interface technology.

For your process application requirements the H-System secures the galvanic isolation between the intrinsically safe field signals and the secure safe side signals of the control system.

The interface technology of the H-System offers the ideal termination board solution. Customize your termination board to your own I/O-Specifications with system connectors. Optimize your installation with Fault Monitor Indication and HART® Communication Boards and a complete range of accessories.

H-SYSTEM – TWO FAMILIES IN ONE SYSTEM

HIC represents our commitment to single loop integrity while the HID offers the highest channel density and functionality. HIC and HID families offer the widest range of products and flexibility.

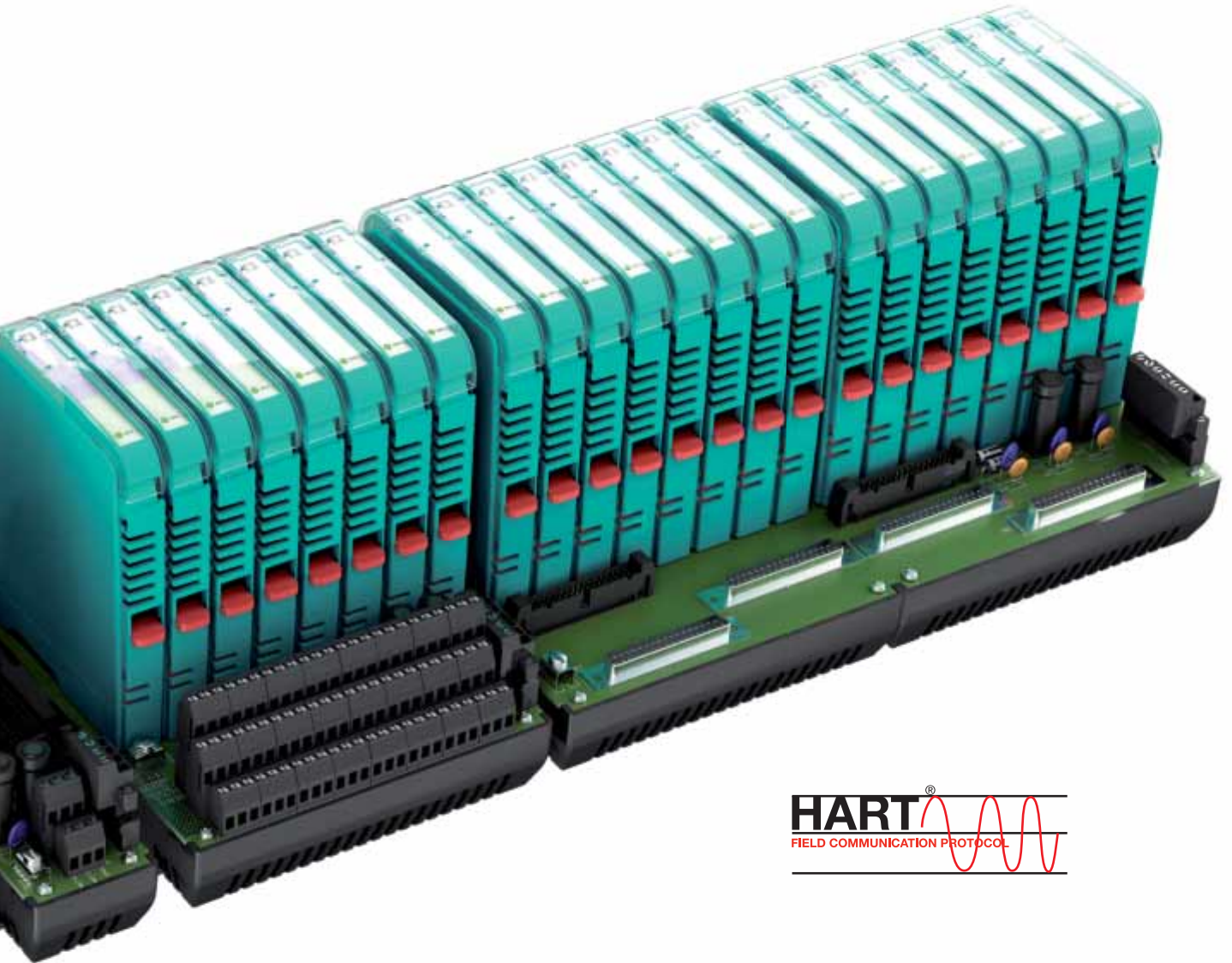


H-SYSTEM – INTERNATIONAL STANDARDS

Worldwide certifications along with SIL without additional costs provides one solution for international use.

H-SYSTEM – SAVE COSTS AND SPACE

The connection from the H-System to your control system via system connectors reduce your planning and start-up time. Simple maintenance due to prewired boards and snap on interface modules combined with minimum space requirements and power dissipation in your cabinets makes the H-System a cost optimized solution.



H-SYSTEM – SAFETY AND DIAGNOSTICS

The digital communication from the field devices to your asset management software provided by HART can be easily implemented by the HART Communication Board.

For signaling collective errors from the termination boards use the Fault Indication Board with its relay output.



Operation and configuration with DTM using the FDT concept and control interface PACTware™

H-SYSTEM – CUSTOMIZING FOR EACH APPLICATION

HART-MUX

- 32 channel diagnostic
- Easy system intergration
- Redundant RS485 terminals
- SIL3

HIC-MODULES

- 12.5 mm housing
- Simple and fast mounting with “Quick Lok”
- Single loop integrity
 - One module per field device
- Low power dissipation
- SIL2/3

TERMINATION BOARDS

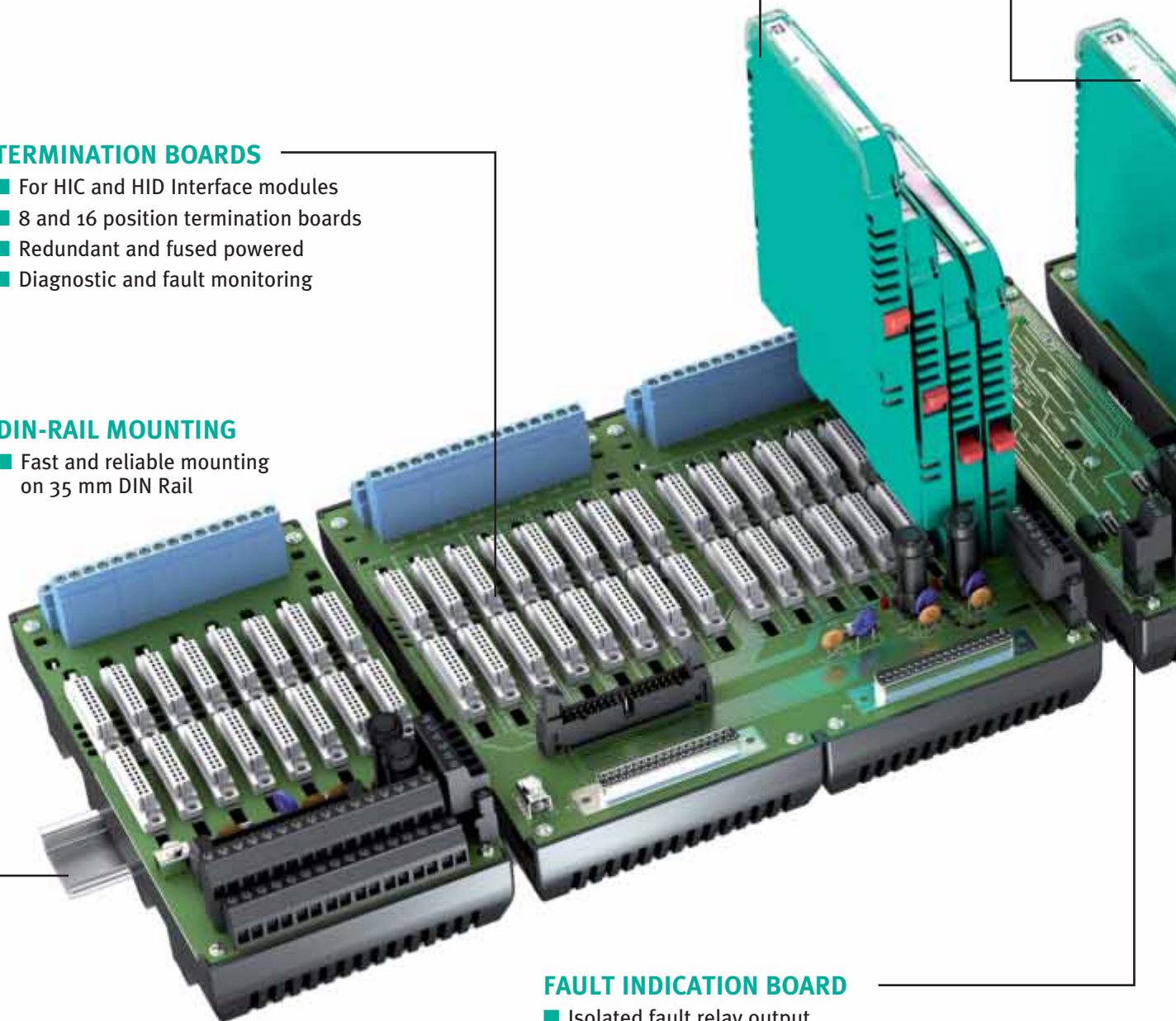
- For HIC and HID Interface modules
- 8 and 16 position termination boards
- Redundant and fused powered
- Diagnostic and fault monitoring

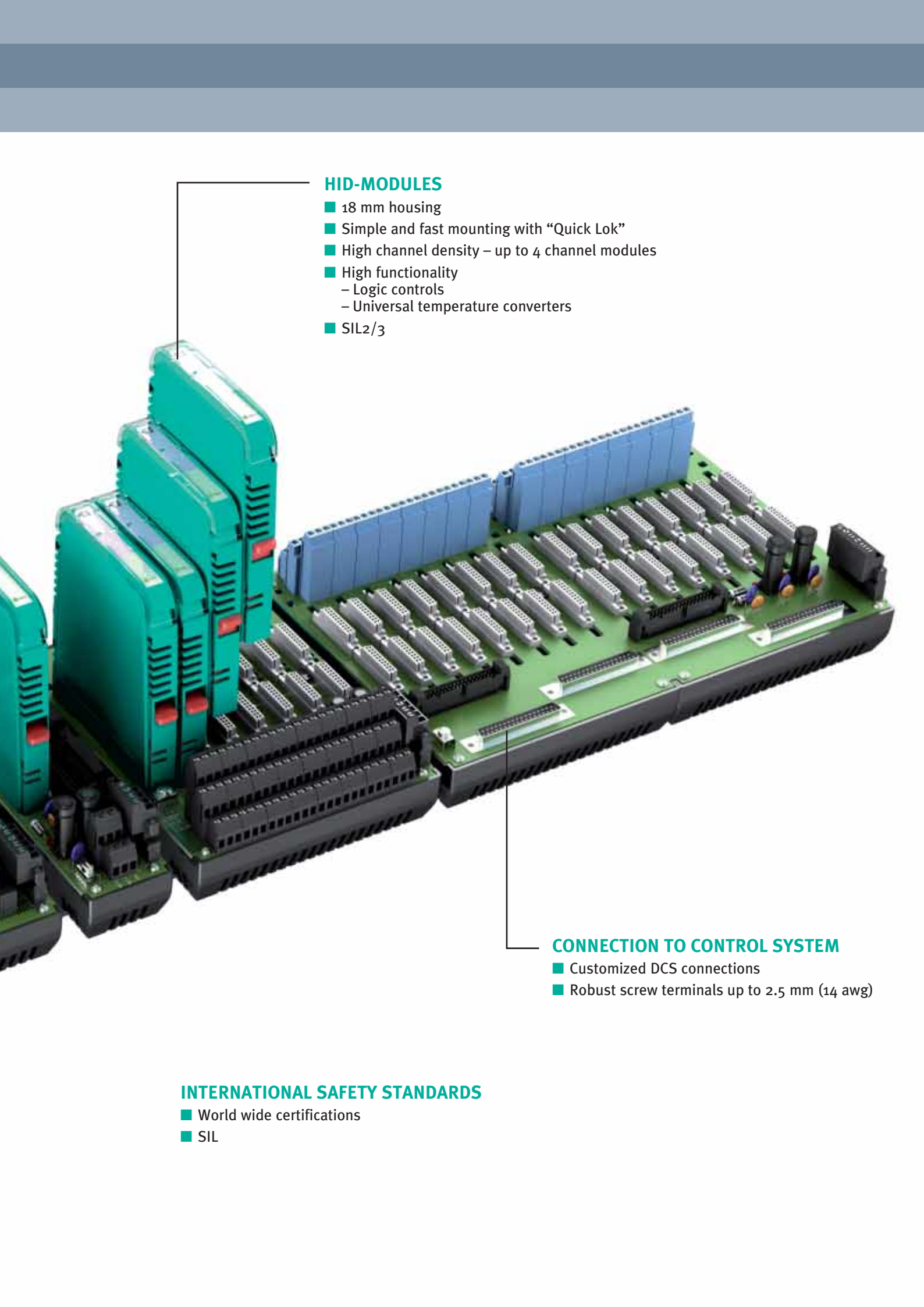
DIN-RAIL MOUNTING

- Fast and reliable mounting on 35 mm DIN Rail

FAULT INDICATION BOARD

- Isolated fault relay output
- Multiple connection options
 - Ring or star wiring





HID-MODULES

- 18 mm housing
- Simple and fast mounting with “Quick Lok”
- High channel density – up to 4 channel modules
- High functionality
 - Logic controls
 - Universal temperature converters
- SIL2/3

CONNECTION TO CONTROL SYSTEM





- Customized DCS connections
- Robust screw terminals up to 2.5 mm (14 awg)



INTERNATIONAL SAFETY STANDARDS




- World wide certifications
- SIL

HIC-MODULES AND HIC-TERMINATION BOARDS

The 12.5 mm wide plug-in mounting HIC-Modules offer single loop integrity and fit into 8- and 16-position HIC-Termination Boards.








HIC-MODULES	chan.	Hazardous Area Signal	Safe Area Signal	Line Monitor	Fault Bus	SMART	SIL 2/3	Zone 2
Switch Amplifier								
	HIC2821	1	Proximity switch or dry contact	Relay	■	■	■	■
	HIC2822	2			■	■	■	■
	HIC2851	2	Safety proximity switch or dry contact	Relay and transistor output	■	■	■	■
Solenoid Driver								
	HIC2871	1	45 mA at 12 V to drive solenoid valve, audible or visual alarm (LED)	Bus and/or loop powered, controlled by external contact from DCS or control device			■	■
Transmitter Power Supply								
	HIC2025	1	4...20 mA, 2-wire transmitter or source, HART	4...20 mA, sink or source, 1...5 V isolated output		■	■	■
Current Driver								
	HIC2031	1	4...20 mA to I/P converters, valve actuators and displays	Bus powered, 4...20 mA signal from DCS, PLC or other control devices		■	■	■


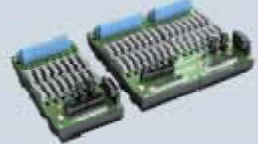
HIC-TERMINATION BOARDS	8-position	16-position					
Universal Boards	HICTB08-UNI-SC-SC	HICTB16-UNI-SC-SC					
	Termination Board for 8 HIC modules Field side: screw terminals DCS side: screw terminals HART® plug on board Mounting: 35 mm DIN Rail Width: 108 mm	Termination Board for 16 HIC modules Field side: screw terminals DCS side: screw terminals HART® plug on board Mounting: 35 mm DIN Rail Width: 216 mm		■	■	■	■
System Boards	HICTB08-UNI-SD37-SC	HICTB16-UNI-SD37-SC					
	Termination Board for 8 HIC modules Field side: screw terminals DCS side: Sub-D HART® plug on board Mounting: 35 mm DIN Rail Width: 108 mm	Termination Board for 16 HIC modules Field side: screw terminals DCS side: Sub-D HART® plug on board Mounting: 35 mm DIN Rail Width: 216 mm		■	■	■	■

H-SYSTEM ACCESSORIES						
HART Communication Board	HIATB01-HART-2x16					
	Termination Board for HART Multiplexer HID MUX 2700 Redundant power supply terminals Redundant RS485 terminals Mounting: 35 mm DIN Rail Width: 50 mm			■	■	■
HART Multiplexer	HID MUX 2700					
	32-channel galvanic isolated channels mounting on HART® Communication Board			■	■	■
Fault Indication Board	HIATB01-FAULT					
	One Fault Indication Board per row or per cabinet Potential-free dry contact (relay output) Detection of open circuit, short circuit and power failures Status LED's for fault indication Width: 50 mm	■	■		■	■

HID-MODULES AND HID-TERMINATION BOARDS

The 18 mm wide plug-in mounting HID-Modules offer a high packing density. With single, dual and quadruple modules 4.5 mm per channel can be reached. The HID-Modules fit into the HID-Termination Boards.

HID-MODULES	chan.	Hazardous Area Signal	Safe Area Signal	Line Monitor	Fault Bus	SMART	SIL 2/3	Zone 2
Switch Amplifier								
	HID2822	2	Proximity switch or dry contact Transistor output	Relay	■	■	■	■
	HID2824	4						
	HID2842	2						
	HID2844	4						
Relay module								
	HID2862	2	Relay	Bus or loop powered, controlled by external contact or logic level from DCS or control device	■			■
Solenoid Driver								
	HID2873	1	40 mA at 12 V to drive solenoid valve, audible or visual alarm (LED)	Bus powered, controlled by external contact from DCS or control device	■	■	■	■
	HID2874	2						
	HID2877	1						
	HID2878	2						
	HID2881	1						
Transmitter Power Supply								
	HID2012	1	4...20 mA input, Smart	4...20 mA (or 1...5 V) sink or source			■	■
	HID2025	1	4...20 mA, 2-wire supply, Smart	4...20 mA (or 1...5 V) isolated output (4...20 mA load sink optional)			■	■
	HID2026	2						
	HID2029	1	4...20 mA, 2- or 3-wire supply, Smart	4...20 mA (or 1...5 V) isolated output (4...20 mA load sink optional)	■	■	■	■
	HID2030	2						
HID2024	4	4...20 mA, 2-wire supply, Smart	4...20 mA (or 1...5 V) isolated output	■	■	■	■	
Current Driver								
	HID2031	1	4...20 mA to I/P converters, valve actuators and displays	Bus powered, 4...20 mA signal from DCS, PLC or other control devices				■
	HID2032	2						
	HID2033	1						
	HID2034	2	Fire, smoke detectors or I/P converters	Loop powered, 4...20 mA signal from DCS, PLC or other control devices			■	■
	HID2036	2						
HID2037	1	4...20 mA and Smart to I/P converters electrovalve actuators and displays'	Bus powered, 4...20 mA signal from DCS, PLC or other control devices		■	■	■	
HID2038	2							
Signal Converters								
	HID2061	1	Thermocouple or mV	4...20 mA (or 1...5 V)	■			■
	HID2062	2						
	HID2071	1	RTD or potentiometer	4...20 mA (or 1...5 V) sink or source	■			■
	HID2072	2						
	HID2082	2	Thermocouple, mV, RTD, Poti	4...20 mA (or 1...5 V) sink or source	■	■		■
Frequency Converter								
	HID 2891	1	Proximity switch, dry contact magnetic pickup Logic voltage or current signals	Relay 4...20 mA Open collector	■	■		■

HID-TERMINATION BOARDS	8-position	16-position					
Universal Boards	HIDTB08-UNI-SC-SC	HIDTB16-UNI-SC-SC					
	Termination Board for 8 HID modules Field side: screw terminals DCS side: screw terminals HART® plug on board Mounting: 35 mm DIN Rail Width: 150 mm	Termination Board for 16 HID modules Field side: screw terminals DCS side: screw terminals HART® plug on board Mounting: 35 mm DIN Rail Width: 300 mm		■	■	■	■
System Boards	HIDTB08-UNI-SD37-SC	HIDTB16-UNI-SD37-SC					
	Termination Board for 8 HID modules Field side: screw terminals DCS side: sub-D HART® plug on board Mounting: 35 mm DIN Rail Width: 150 mm	Termination Board for 16 HID modules Field side: screw terminals DCS side: sub-D HART® plug on board Mounting: 35 mm DIN Rail Width: 300 mm		■	■	■	■

PROCESS AUTOMATION – PROTECTING YOUR PROCESS



For over a half century, Pepperl+Fuchs has been continually providing new concepts for the world of process automation. Our company sets standards in quality and innovative technology. We develop, produce and distribute electronic interface modules, Human-Machine Interfaces and hazardous location protection equipment on a global scale, meeting the most demanding needs of industry. Resulting from our world-wide presence and our high flexibility in production and customer service, we are able to individually offer complete solutions – wherever and whenever you need us. We are the recognized experts in our technologies – Pepperl+Fuchs has earned a strong reputation by supplying the world's largest process industry companies with the broadest line of proven components for a diverse range of applications.

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