pac-Carrier
Series 9195

14224E00

- pac-Carrier for 8 or 16 modules, up to 32 signals
- All standard ISpac isolators can be used
- Integration of Ex i and non-Ex i field circuits in one carrier
- Easy and quick installation due to:
  - customized system cables to automation system
  - installation of the carrier on DIN rail or mounting plate
- Very robust chassis proven by the DNV approval for ship building
- Suitable for the following systems:
  - Emerson Delta V
  - Invensys
  - Honeywell C300
  - Siemens ET200M and ET200F
  - Yokogawa Centum VP and ProSafe-RS

A3

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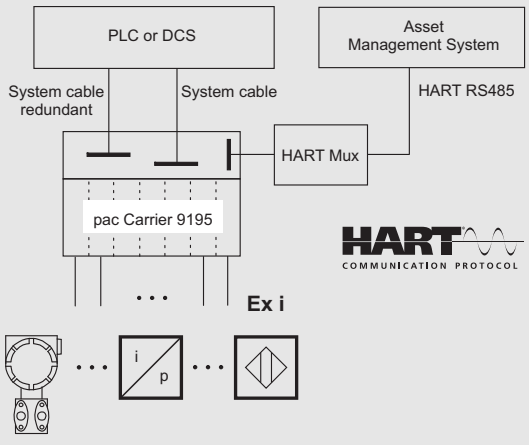
The pac-Carrier is an time and cost saving solution, whenever I.S. field devices neet to be connected to frequently used I/O modules of DCS or PLC. The wiring on the safe side is reduced to the plug-in of a system cable and the installation of the isolators without tools.
The product family includes versions, which could be combined with the HART multiplexer. These version allow to establish the HART communication between field devices and the management system. New versions of the pac-Carrier can be easily and quickly generated.



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WebCode 9195A

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Ex i interface	x	x	x	x	x	x
Installation in			x			x

	NEC 505 Class I			NEC 506		
Zone	0	1	2	20	21	22
Ex i interface	x	x	x			
Installation in			x			x

	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex i interface	x	x	x	x	x	x
Installation in		x		x		x

Selection Table

Version	I/O-cards type	Signal type	Number of slots	Connection HART-Multiplexer	Redundancy	Order number	Weight kg
pac-Carrier Type 9195 universal	all	DI, DO, AI, AO	8	no	no	**9195/08A-EP1-05A5**	0.356
			16	no	no	**9195/16A-XX0-03B3**	0.834
			16	9192/32	no	**9195/16H-XX0-01C**	0.843
	Customer specific versions for the following DCS: Yokogawa Centum VP, Yokogawa Pro-Safe-RS, Emerson Delta V, Emerson SIS 1508, TRICONEX, Invensys, Honeywell, Siemens.						
	Detailed information about the available pac-carrier versions as well as technical documentation you may download from the internet under WebCode 9195 A. Development and delivery of new versions within 6 weeks.						

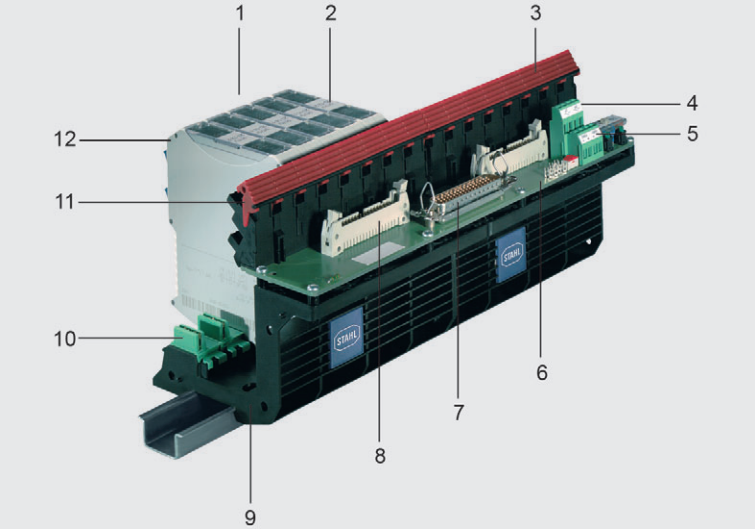
Explosion Protection

Global (IECEx)	
Gas	IECEx BVS 10.0042X Ex nA nC IIC T4 Gc
Europe (ATEX)	
Gas	BVS 03 ATEX E 213 X Ⓔx II 3 G Ex nA nC IIC T4 Gc
Certifications and certificates	
Certificates	IECEx, ATEX, Brazil (INMETRO), Canada (cFM), Kazakhstan (GOST K), Russia (GOST R), USA (FM), Belarus (operating authorisation)
Ship approval	DNV
Functional safety (IEC 61508)	
Test report	Exida Stahl 04/40-03 R002
Max. SIL	3
Safe Failure Fraction SFF	74 ... 95 %
PFD_{AVG} at $T_{[Proof]}$	$T_{[Proof]}$ — PFD_{AVG} 1 year — 3.89×10^{6} 5 years — 1.12×10^{-5} 10 years — 2.04×10^{-5}
Further parameters	
Installation	in Zone 2, Div. 2 and in the safe area
Further information	see respective certificate and operating instructions

Technical Data

Electrical data	
Auxiliary power	
Nominal voltage U_N	24 V DCV DC
Voltage range	19 ... 31.2 V
Residual ripple	≤ 3.6 V_{SS}
Redundant supply	yes, decoupled with diodes
Operation indication	2 LED green "PWR1"; "PWR2"
Fuse	2 x TR5; T 2.0 A; exchangeable, for primary and redundant supply
Polarity reversal protection	yes
Field devices	
Connection	at the terminals of the I.S. isolators (specification see module data sheets)
Number of channels	8, 16, 32

Technical Data

Electrical data	
Automation systems	
Connection	System specific plug (Sub-D, Elco, etc.)
Number of channels	up to 32
HART interface	
Connection	- via connection of automation systems - via HART multiplexer 9192 (only at 9195/..H-...-...)
Error message	
Power fail PF	Contact (35 V / 100 mA), closed in good conditions
Line fault LF	Contact (35 V / 100 mA), closed in good conditions
Electromagnetic compatibility	Tested under the following standards and regulations: EN 61326-1 Use in industrial environment; NAMUR NE 21
Ambient temperature	
Ambient temperature	-20 ... +70 °C any mounting position pay attention of the I.S. isolators specification, see „Cabinet installation guide“
Storage temperature	-40 ... +80 °C
Relative humidity (no condensation)	≤ 95 %
Mechanical data	
Mounting type	on DIN rail (NS35/15, NS35/7.5) or mounting plate (4 x screw M6)
Mounting orientation	horizontal or vertical
Degree of protection	
Degree of protection	IP00
Terminals	IP20
Enclosure material	PA 6.6
Fire resistance (UL-94)	V0
Construction drawing	

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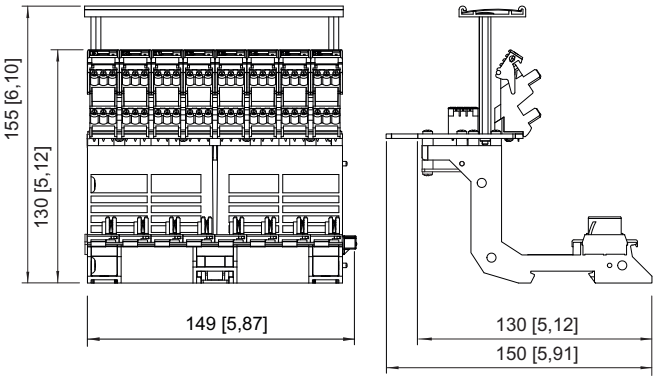
1. Carrier for 8 or 16 modules (32 channels)
2. Labeling for module, slot and carrier
3. Ejector mechanism (with screw driver)
4. Redundant and fused supply
5. Power supply failure and line fault signalling via relay
6. System specific PCB
7. System specific plugs
8. Signal duplication and / or connection HART-Multiplexer
9. For hat-rail or mounting plate
10. Integrated pac-Bus for power supply and line-fault signalling
11. Secure snap-in mechanism, without tool
12. Single slot, any signal mixture

Accessories and Spare Parts

Designation	Figure	Description	Order number	Weight kg
Non-Ex i Termination Module	 06314E00	The termination module is used to integrate non-Ex i field circuit into the system integration solution pac-carrier type 9195. In such a way it enables a flexible mixture of Ex i and non-Ex i field circuits.	**9191/20-00-50s**	0.060
ISpac Dummy Module	 07091E00	The Dummy module is used for the connection of unused cable. There is no electrical connection between input and output terminal.	**9191/20-00-00**	0.060

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



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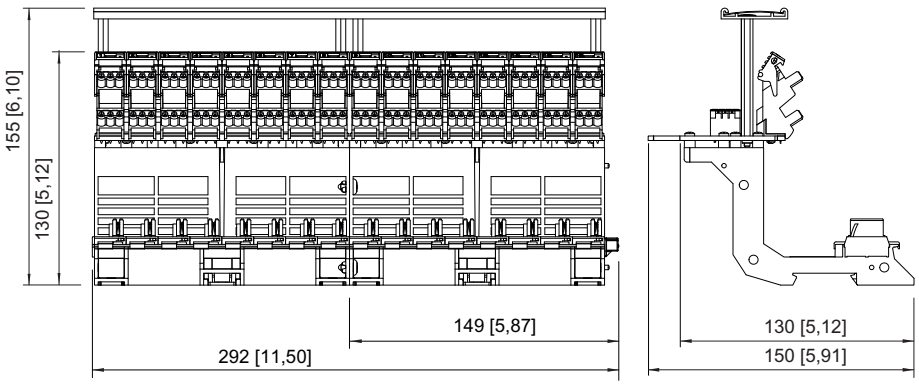
Type 9195/08.-...-..., 8 slots



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Type 9195/16.-...-..., 16 slots

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.