

14710E00

- > For Fieldbus Power Supplies Series 9412 for supplying FF H1 segments with power
- > For 4 or 8 fieldbus segments, simplex or redundant
- > Slot for the diagnosis communication module (DCM) 9415 for the transmission of physical layer data via FF H1
- > Mounting on DIN rail or mounting plate
- > High availability through:
  - > Redundant auxiliary power supply with signalling contact
  - > Separate signalling contact for segment fault



The bus-Carrier is a time- and cost-saving solution for installing the Fieldbus Power Supplies Series 9412 for supplying FF H1 fieldbus segments with power. Carrier versions for 8 segments with simplex supply and for 4 or 8 segments with redundant supply are available. A special slot can be used to install a diagnosis communication module Series 9415, which will transmit the physical layer values measured by the Fieldbus Power Supplies online to a host via an FF H1 segment.

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

**Selection Table**

Version	Connection	Trunk supply	Number of segments	Number of slots	Order number
bus-Carrier, universal	to any FF H1 hosts	simplex	8	8 FPS + 1 DCM	<b>9419/08F-XX1-01C1</b>
		redundant	4	8 FPS + 1 DCM	<b>9419/04R-XX1-02C1</b>
			8	16 FPS + 1 DCM	<b>9419/08R-XX1-02C1</b>

Note Shield clamps have to be ordered separately for carriers 08R and 04R.

**Explosion Protection**

**Global (IECEX)**

Gas	IECEX BVS 09.0042X Ex nA nC IIC T4 Gc
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**Europe (ATEX)**

Gas	BVS 09 ATEX E 100 X Ⓜ II 3 G Ex nA nC IIC T4 Gc
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**Certifications and certificates**

Certificates	IECEX, ATEX
Ship approval	DNV

**Further parameters**

Installation	Zone 2, safe area
Further information	see respective certificate and operating instructions

**Technical Data**

**Electrical data**

Auxiliary power	
Nominal voltage $U_N$	24 V DC
Voltage range	19 ... 32 V
Residual ripple within voltage range	$\leq 3.6 V_{SS}$
Redundant supply	yes, diode-decoupled
Polarity reversal protection	yes
Operation indication	2 LEDs, green "pri", "red"
Electromagnetic compatibility	Tested under the following standards and regulations: EN 61326-1 Use in industrial environment; NAMUR NE 21

**Error detection**

Power Fail (pri / red)	Contact "PF" (35 V /100 mA) closed in good conditions
Diagnostics	Contact "Dia" (35 V /100 mA) closed in good conditions

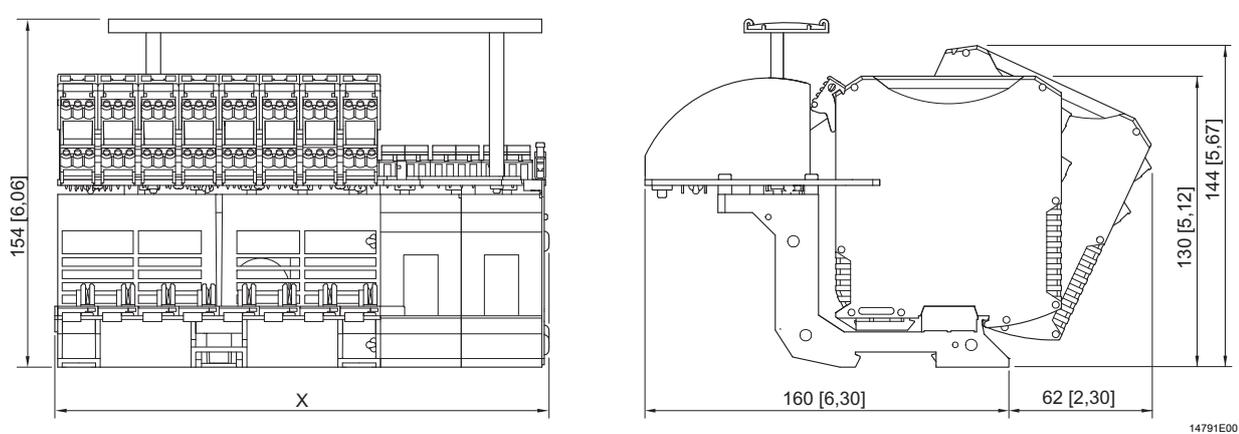
**Ambient conditions**

Ambient temperature	-20 ... +70 °C for further information, see operating instructions for Type 9412
Storage temperature	-40 ... +80 °C
Relative humidity (no condensation)	< 95 %

**Mechanical data**

Connection	
Trunk	to the terminals of the bus-Carrier or of the fieldbus power supply
Host / red. host	to the terminals of the bus-Carrier or of the Fieldbus Power Supplies
DCM	via ribbon cable using plug connectors
Shield	via integrated shield bar with strain relief
Connection	Screw terminals
cross-section	Connection single-wire - rigid 0.2 ... 2.5 mm <sup>2</sup> / 24 ... 14 AWG - flexible 0.2 ... 2.5 mm <sup>2</sup> / 24 ... 14 AWG - flexible with cable end sleeves (without / with plastic cover) 0.25 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG Connection two wires - rigid 0.2 ... 1 mm <sup>2</sup> / 24... 16 AWG - flexible 0.2 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG - flexible with cable end sleeves 0.25 ... 1mm <sup>2</sup> / 22 ... 16 AWG
Mounting type	on top hat rail (NS35/15, NS35/7.5) or mounting plate (4 x screws M6)
Mounting orientation	horizontal or vertical for further information, see operating instructions for Type 9412
Degree of protection	IP00
Terminals	IP20
Enclosure material	PA 6.6
Fire resistance (UL-94)	V0

**Dimensional Drawings** (All Dimensions in mm [inch]) - Subject to Alterations



Type	Dimension X
9419/04R-XX1-02C1	217 mm [8.55]
9419/08F-XX1-01C1	217 mm [8.55]
9419/08R-XX1-02C1	359 mm [14.13]

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**Accessories and Spare Parts**

Designation	Figure	Description	Order number	Weight kg
Fieldbus Power Supply Series 9412	 12783E00	fieldbus power supply and diagnostics	<b>9412/00-310-11s</b>	0.135
	 12809E00	fieldbus power supply, diagnostics and adjustable warning level	<b>9412/00-320-11s</b>	0.135
Diagnosis communication module Series 9415	 14406E00	transmission of diagnostics data for up to 8 segments via FF H1	<b>9415/00-310-42</b>	0.240

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.