



- To provide Foundation Fieldbus H1 segments (high-power trunk) with a single or redundant power supply
- Output > 28 V, up to 1 A, galvanically separated
- Integrated advanced physical layer diagnostics

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MY R. STAHL 9412A



Single or redundant Series 9412 fieldbus power supply units are used to provide an FF H1 high-power trunk with up to 28 V/500 mA, and up to 1 A in Boost mode. In the background, they measure the advanced physical layer parameters, which can be reported via an Android smartphone or via configurable integrated alarms. 9419 bus-Carriers or DIN rails can be used for installation.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in			•			

	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Installation in		•				

	CE Code Section 18					
	NEC® 505			NEC® 506		
Zone	Class I			20	21	22
Zone	0	1	2	20	21	22
Installation in			•			

Selection Table					
Product variant	Fieldbus power supply				
Description	Output voltage electrical data	Product Type	Art. No.	Weight	
Fieldbus supply, diagnostics and adjustable warning level	≥ 28 V DC	9412/00-320-11s	200588	135 g	

Technical Data	
Explosion Protection	
IECEX gas explosion protection	Ex nA nC IIC T4 Gc
ATEX gas explosion protection	Ⓔ II 3 G Ex nA nC IIC T4 Gc
Certificates	ATEX (BVS), Brazil (ULB), IECEX (BVS), International (FF)
Declaration of Conformity	ATEX (EUK)
Electrical Data	
Data interface	Serial, at the front (RS232)
Fieldbus specification	IEC 61158-2, FOUNDATION™ fieldbus H1 FF-831
Simplex mode output current	10 to 500 mA
Redundancy mode output current	10 to 500 mA (2x250 mA per 9412)
Boost mode output current	10 mA to 1 A (2x500 mA per 9412)
EOL resistor	Integrated, switchable
Error message	Overload, short circuit and physical layer values: Trunk voltage/current, signal level, noise, jitter, imbalances
Auxiliary Power	
Nominal voltage	24 V DC
Auxiliary power voltage range	18 to 32 V
Current consumption	730 mA @ 24 V
Max. power dissipation	3.35 W






Technical Data
Device Specific Data

Error messaging device	Relay contact (30 V DC/100 mA),
Error detection	Overload Short circuit Physical layer values
Signal quality level setting	"SIGNAL QUALITY" rotary switch
LED signal quality segment	"OK" LED, green "WARNING" LED, yellow "BAD" LED, red

Ambient Conditions

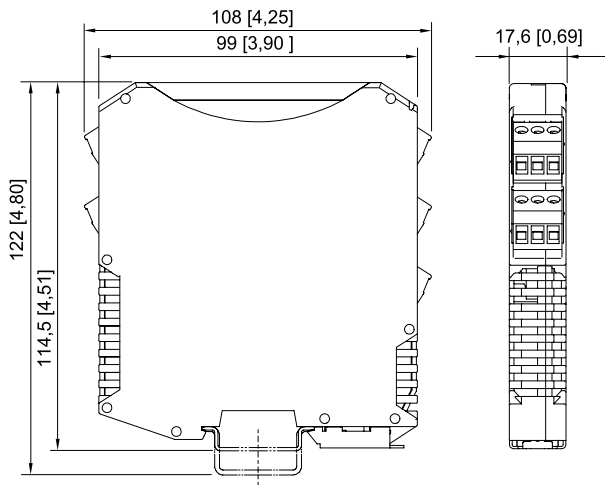
Ambient temperature	-20 °C ... +70 °C
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Accessories

Figure	Description	Art. No.	Weight
Yokogawa bus-Carrier			
	Yokogawa bus-Carrier for eight segments, simplex	221454	600 g
	Yokogawa bus-Carrier for four segments, redundant	221455	600 g
	Yokogawa bus-Carrier for eight segments, redundant	221456	1.2 kg
bus-Carrier			
	bus-Carrier for four segments, redundant	208746	600 g
	bus-Carrier for eight segments, simplex	208745	600 g
	bus-Carrier for eight segments, redundant	208747	1.2 kg
bus-Carrier for linking device			
	bus-Carrier for linking device for four segments, simplex	250240	712 g
	bus-Carrier for linking device for four segments, redundant	250241	980 g
	bus-Carrier for linking device for eight segments, simplex	250242	1.01 kg

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

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ISpac Series 9143, 9146, 9147, 9160, 9162, 9163,
9165, 9167, 9170, 9172, 9175, 9176, 9180, 9182,
9193, ISbus Series 9412 with screw terminal