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The Type 9412/0*-3*0-1* Fieldbus Power Supply is an Explosion protected device for installation in Non-Hazardous, Class I, II, III Division 2 or Class 1, Zone 2 or Class II, III, Zone 21 Hazardous (Classified) Locations .

Fieldbus Power Supply Type 9412/0b-3d0-1g

b = numeral 0, 1 or 2 for output voltage

0 = $U_o / V_{oc} = 30.4 V$

1 = $U_o / V_{oc} = 17.3 V$

2 = $U_o / V_{oc} = 23.7 V$

d = numeral 0, 1 or 2 for design

0 = project version

1 = with fault monitoring

4 = with signal diagnosis

g = numeral 0 or 1 for terminator function

0 = terminator active "ON"

1 = Selectable Terminator "ON" or "OFF"

Nominal values are as follows:

Type	Terminal	V_{nom}	U_{max}	I_{nom} at 18 V	I_{nom} at 24 V	I_{nom} at 32 V
9412/00-3*0-1*	7 (+); 9 (-)	24 V DC (9 to 32 V DC)	32 V DC	1.00 A	0.74 A	0.58 A
9412/01-3*0-1*				0.54 A	0.41 A	0.31 A
9412/02-3*0-1*				0.74 A	0.56 A	0.42 A
9412/0*-3*0-1*	8, 9 (-)	30 V AC or DC	32 V AC/DC	100 mA		
9412/0*-3*0-1*	4, 5	5 V DC	32 V DC	5 mA		

The output circuit provides voltage limitation as per type of protection AEx ic. With a current limiter as per type of protection AEx ic in series an intrinsically safe circuit with type of protection AEx ic can be established.

Type	Terminal	V_{nom} (min)	V_{oc} [V]	I_{sc} [mA]
9412/00-3*0-1*	10 (Trunk +), 11 (Trunk -), 12 (Shield)	28.0	30.4	not I.S. limited (depends on external current limitation)
9412/01-3*0-1*	13 (Host +), 14 (Host -), 15 (Shield)	15.0	17.3	
9412/01-3*0-1*	1 (bus-Carrier +), 2 (bus-Carrier -), 3 (bus-carrier shield), ,	21.4	23.7	

Notes:

- For Connections refer to chapter 10 of Operation Instructions.
- Installation should be in accordance with Article 504/505 of the National Electrical Code, ANSI/NFPA 70 and ANSI/ISA RP 12.06.01
- Installation in Canada should be in accordance with the Canadian Electrical Code, CSA C22.1, Part 1, Appendix F.
- Do not connected circuits which use > 32 V (U_{max}) to the non I.S. side circuits of the FPS.
- Do not disconnect Non-I.S. field wiring unless area is known to be non hazardous.
- To guarantee field circuits with Limited Energy per AEx ic use an appropriate device with current limitation of type of protection AEx ic (e.g. R. STAHL Type 9411/34-3**-*0)
- Do not disconnect voltage limited output circuit unless area is known to be non hazardous.
- Each channel shall be installed within a separately shielded cable or a single cable with a separate shield for each channel.
- Ambient temperature: -20°C ... +70°C; depends on mounting and load conditions refer to chapter 6 of Operation Instructions.
- Use a general purpose enclosure meeting the requirements of ANSI/ISA S82.02.01 for use in Non-Hazardous or Class I, Division 2, Hazardous (Classified) Locations.
- Use an FM Approved Dust-ignition proof enclosure appropriate for environmental protection in Class II, Division 1, Groups E, F and G; and Class III, Hazardous (Classified) Locations.
- The FPS Types 9412/0*-3*0-1* are to be snapped mounted on DIN rail or onto bus-Carrier Type 9419.

WARNING :

Substitution of components may impair Intrinsic Safety.

Do not disconnect equipment when a flammable or combustable atmosphere is present.


AVERTISSEMENT:

Substitution de composants peut compromettre la sécurité intrinsèque.

Ne pas débrancher l'équipement en présence d'atmosphère inflammable ou combustible.

The safety relevant statements of this document may be transferred into the operating instructions.

Transferring the text, editorial changes of equivalent meaning are allowed.

			2010	Date	Name	Certification drawing		Scale
			drawn	20.09.	Reistle	IS bus – Fieldbus Power Supply Type 9412/0*-3*0-1*		none
			checked		Kaiser			Sheet
								1 of 1
02	19.02.13	Bader				9412 6 031 001 1		Agency
01	04.10.11	Reistle						FM
Version	Date	Name				Ers. f.	Ers. d.	A4

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