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The Type 9410/34-3*0-*0 Field Device Coupler 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 and provides nonincendive circuits / circuits with type of protection AEx ic for connection of fieldbus devices.

Field device coupler Type 9410/34-3d0-f0

d = numeral 1, 2 or 3 for design of terminal

f = numeral 3 or 4 for number of Channels

- 1 = Screw type terminals;
- 2 = Cage clamp terminals
- 3 = detachable Terminal blocks
- 3 = 4 Channels;
- 4 = 8 Channels
- 6 = 12 Channels

Nominal values are as follows:

	V_{nom}	I_{nom} (4 channels at 41mA)	I_{nom} (8 channels at 41mA)
Terminal TRUNK + / -	24 V DC (9 to 32 V DC)	184 mA	348 mA
Terminal SPUR + / -	24 V DC (9 to 32 V DC)	≤ 41 mA	≤ 41 mA

Entropy parameters for the output circuits in type of protection AEx ic are as follows, provided the input voltage at the TRUNK is limited per AEx ic requirements. The output voltage at the SPUR is identical to that voltage supplied at the TRUNK:

Terminal TRUNK + / -	V_{max} [V]	Terminal SPUR 1 to 4 (8): + / -	V_{oc} [V]	I_{sc} [mA]	P_o [W]	L_o CL I, DIV 1, A,B Zone 0, GP IIC	C_o CL I, DIV 1,A,B Zone 0, GP IIC
	≤ 25		≤ 25	54	1,35	0,27 mH	80 nF


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.
- Each channel shall be installed within a separately shielded cable or a single cable with a separate shield for each channel.
- Do not disconnect Non-I.S. field wiring unless area is known to be non hazardous.
- Connect either non I.S. circuits or AEx ic circuits. Do not mix different types of circuits.
- To guarantee circuits with Limited Energy per AEx ic at the output circuits (SPUR) use an appropriate supply (e.g. R. STAHL Type 9412) with an output voltage limited per AEx ic.
- Do not disconnect voltage limited TRUNK unless area is known to be non hazardous.
- All Terminal "S" for connection of the cable shield are internally interconnected and separated from all other circuits. Use (optional) ground busbar terminals for direct ground connection.
- Ambient temperature: -40°C ... +75°C
- 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 FDC Types 9410/34-3d0-f0 are to be snap mounted on DIN rail or screw mounted on a rail or plate.

WARNING : Substitution of components may impair Intrinsic Safety.
Do not disconnect non I.S. Trunk when a flammable or combustable atmosphere is present.

AVERTISSEMENT: Substitution de composants peut compromettre la sécurité intrinsèque.
Ne pas débrancher la jonction non de sécurité intrinsèque 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.

Version	Date	Name	Certification drawing		Scale
	2011	Date	Name	IS bus - Field Device Coupler Type 9410/34-3*0-*0	none
	drawn	04.10.	Reistle		Sheet
	checked		Kaiser		1 of 1
02	19.02.13	Bader		9410 6 031 001 1	Agency
01	04.11.11	Reistle			FM
Version	Date	Name	Ers. f.	Ers. d.	A4

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