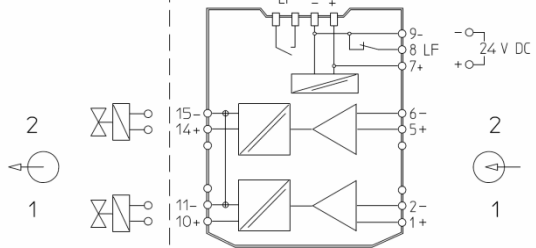


Type 9175/*0--1***

Hazardous area



(only at 9175/2*)

Hazardous area: Class I, II, III; DIV 1; Group A-G or Class I; Zone 0; Group IIC/IIB Hazardous Locations
 Safe area: Non-hazardous; Division 2 or Zone 2 Hazardous (Classified) Locations

The Digital Output Type 9175 is an associated apparatus as well as a nonincendive apparatus for installation in non-hazardous or Class I; Division 2 or Zone 2 Hazardous (Classified) Locations and provides intrinsically safe connections for one (or two) field devices located in Class I, II, III, Division 1, Group A-G or Zone 0 [AEx ia] Group IIC, hazardous locations according to NEC Article 504/505 as listed below.

Digital Output Type 9175/a0-1d-1f a = numeral 1 or 2 for number of channels
 d = numeral 2, 4 or 6 for characterising the output
 f = numeral 0, 1 or 2 for characterising the line fault options

Entity parameters for wiring configurations are as follows:

	V _{OC} [V]	I _{SC} [mA]	P _O [mW]	L _O CL I, DIV 1, A,B / Zone 0, GP IIC	L _O CL I, DIV 1, C-G / Zone 0, GP IIB	C _O CL I, DIV 1, A,B/ Zone 0, GP IIC	C _O CL I, DIV 1, C-G / Zone 0, GP IIB
Type 9175/*0-12-1*							
DIV 1, Zone 0 (AEx ia)	11.3	75	210	6.3 mH	25 mH	1.79 µF	12.1 µF
output 1 and 2 parallel	11.3	150	420	1.5 mH	6 mH	1.79 µF	12.1 µF
Type 9175/*0-14-1*							
DIV 1, Zone 0 (AEx ia)	19.6	150	732	1.5 mH	6 mH	235 nF	1470 nF
Zone 1 (AEx ib)	19.6	60	732	1.5 mH	6 mH	235 nF	1470 nF
output 1 and 2 parallel							
DIV 1, Zone 0 (AEx ia)	19.6	300	1464	0.3 mH	1.5 mH	235 nF	1471 nF
Zone 1 (AEx ib)	19.6	120	1464	0.3 mH	1.5 mH	235 nF	1471 nF
Type 9175/*0-16-1*							
DIV 1, Zone 0 (AEx ia)	27.6	110	760	1.2 mH	9 mH	85 nF	667 nF
Zone 1 (AEx ib)	27.6	50	760	1.2 mH	9 mH	85 nF	667 nF
output 1 and 2 parallel							
DIV 1, Zone 0 (AEx ia)	27.6	220	1520	-	1.8 mH	-	665 nF
Zone 1 (AEx ib)	27.6	100	1520	-	1.8 mH	-	665 nF

Notes:

- For Connections refer to chapter Commissioning of Operation Instruction ID-No. 91 756 11 31 0.
- Intrinsically safe apparatus may be switches, thermocouples, LEDs, RTDs or an FM Approved System or Entity device connected in accordance with the manufacturer's installation instructions.
- For Entity concept use the appropriate parameters to ensure the following:

$$V_t \text{ or } V_{OC} \leq V_{max} \quad C_o, C_a \geq C_i + C_{leads} \quad P_o \leq P_i$$

$$I_t \text{ or } I_{SC} \leq I_{max} \quad L_o, L_a \geq L_i + L_{leads}$$
- Electrical apparatus connected to an intrinsically safe system should not use or generate voltages > 250 V (U_{max}).
- Installation should be in accordance with Article 504/505 of the National Electrical Code, ANSI/NFPA 70 and ANIS/ISA RP 12.06.01.
- Installation in Canada should be in accordance with the Canadian Electrical Code, CSA C22.1, Part 1, Appendix F.
- Use a general purpose enclosure meeting the requirements of IEC 61010-1 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.
- These modules are to be mounted on DIN rail, DIN rail with pac-Bus (type 9194) or pac-Carrier (type 9195). The I.S. field wiring in any case is connected to the ISpac device terminals.
- Ambient temperature: -20°C ... +60°C (any mounting position)
 -20°C ... +70°C (vertical mounting on horizontal DIN rail)

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

			2007	Date	Name	Certification drawing	Scale
			drawn	04.05.	Einsiedler		none
			checked		Kaiser		Sheet
						Digital Output Type 9175/*0-1*-1*	1 of 1
02	22.10.12	Reistle	STAHL			91 756 01 31 1	Agency
01	13.12.11	Reistle					FM
Version	Date	Name	Ers. f.			Ers. d.	A4