

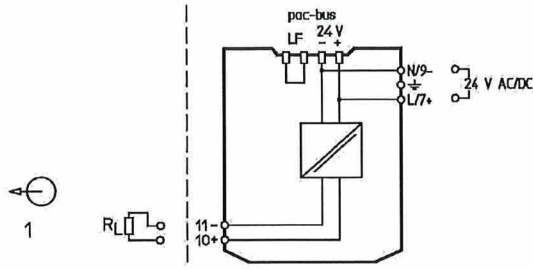
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Type 9143/10-***-***-10

Class I, II, III, Zone 1, Group IIC or IIB
Hazardous Locations

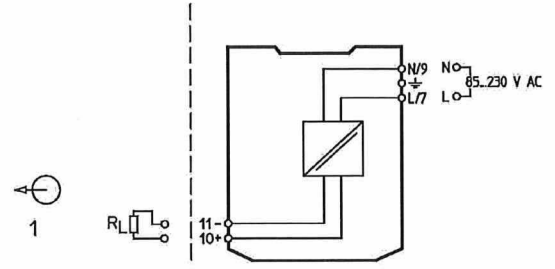
Non-hazardous, Division 2 or Zone 2
Hazardous (Classified) Locations



Type 9143/10-***-***-20

Class I, II, III, Zone 1, Group IIC or IIB
Hazardous Locations

Non-hazardous Locations



The I.S. Power Supply Type 9143/10-***-***-10 is an associated apparatus as well as a nonincendive apparatus and provides intrinsically safe connections for field devices located in Class I, II, III, Zone 1 [Ex ib] Group IIC or Group IIB, hazardous locations.

The I.S. Power Supply Type 9143/10-***-***-20 is an associated apparatus located in a non-hazardous location and provides intrinsically safe connections for field devices located in Class I, II, III, Zone 1 [Ex ib] Group IIC or Group IIB, hazardous locations.

I.S. Power Supply Type 9143/10-aaa-bbb-c0

- a = 3 digits numeral for output voltage (tenth of maximum output voltage)
- b = 3 digits numeral for output current (maximum output current in mA)
- c = numeral 1 or 2 for supply voltage (1 = 20 to 28 V AC or 18 to 35 V DC; 2 = 85 to 250 V AC)

Entity parameters for wiring configurations are as follows:

aaa	bbb	U _o	I _o	P _o	L _o	C _o	L _o if C _o = 0	C _o if L _o = 0	L _o	C _o	L _o if C _o = 0	C _o if L _o = 0
					CL.I, II, III, Zone 1, GP. IIC				CL.I, II, III, Zone 1, GP. IIB			
065	150	6.5 V	150 mA	975 mW	1 mH	0.78 µF	1.43 mH	25 µF	1 mH	9 µF	6.25 mH	570 µF
065	200	6.5 V	200 mA	1300 mW	0.5 mH	1.1 µF	0.82 mH	25 µF	1 mH	7.7 µF	3.71 mH	570 µF
099	220	9.9 V	220 mA	2178 mW	0.1 mH	1.2 µF	0.3 mH	3 µF	1 mH	3.4 µF	1.7 mH	20.2 µF
104	220	10.4 V	220 mA	2288 mW	0.1 mH	1.4 µF	0.24 mH	2.4 µF	1 mH	3.1 µF	1.5 mH	16.8 µF
114	200	11.4 V	200 mA	2280 mW	0.1 mH	1.2 µF	0.16 mH	1.64 µF	1 mH	2.9 µF	1.4 mH	11.2 µF
124	150	12.4 V	150 mA	1860 mW	0.1 mH	1.1 µF	0.17 mH	1.24 µF	1 mH	2.9 µF	2.08 mH	7.9 µF
124	195	12.4 V	195 mA	2418 mW	0.05 mH	1.24 µF	0.066 mH	1.24 µF	1 mH	2.5 µF	1.01 mH	7.9 µF
126	150	12.6 V	150 mA	1890 mW	0.1 mH	1.1 µF	0.141 mH	1.15 µF	1 mH	2.8 µF	1.95 mH	7.4 µF
156	065	15.6 V	65 mA	1014 mW	0.1 mH	0.34 µF	0.445 mH	0.497 µF	1 mH	2.5 µF	11.2 mH	3.03 µF
156	150	15.6 V	150 mA	2340 mW					0.2 mH	1.9 µF	0.482 mH	3.03 µF
156	160	15.6 V	160 mA	2496 mW					0.2 mH	1.8 µF	0.351 mH	3.03 µF
187	050	18.7 V	50 mA	935 mW	0.05 mH	0.27 µF	0.06 mH	0.27 µF	1 mH	0.99 µF	15.5 mH	1.64 µF
187	100	18.7 V	100 mA	1870 mW					0.5 mH	0.74 µF	0.521 mH	1.64 µF
244	035	24.4 V	35 mA	854 mW					0.2 mH	0.7 µF	26.3 mH	0.88 µF
244	055	24.4 V	55 mA	1342 mW					0.2 mH	0.67 µF	1.54 mH	0.88 µF
244	060	24.4 V	60 mA	1464 mW					0.2 mH	0.67 µF	0.534 mH	0.88 µF

Notes:

- Intrinsically safe apparatus may be switches, LEDs or a CSA Certified System or Entity device connected in accordance with the manufacturer's installation instructions.
- For Entity concept use the appropriate parameters to ensure the following:

$$U_o, V_{oc} \leq U_i, V_{max} \quad C_o, C_a \geq C_i + C_{leads} \quad P_o \leq P_i$$

$$I_o, I_{sc} \leq I_i, I_{max} \quad L_o, L_a \geq L_i + L_{leads}$$
- Electrical apparatus connected to an intrinsically safe system should not use or generate voltages > 250 V (U_{max}).
- Suitable separation must be maintained between I.S. wiring and all other non-I.S. wiring.
- Installation should be in accordance with Canadian Electrical Code, Part I.
- Use a general purpose enclosure appropriate for environmental protection.
- Modules types 9143/10-***-***-10 are to be snap mounted singly on DIN rail or can be centrally supplied via the common power supply using the pac-Bus (type 9194). Modules type 9143/10-***-***-20 cannot be supplied via the pac-Bus and must be connected via the device's terminals. The field wiring in any case is connected to the ISpac device terminals.
- Ambient temperature: -20°C ... +60°C (any mounting position) or -20°C ... +70°C (vertical mounting on horizontal DIN rail)

Standards:

CSA C22.2 No. 142-M1987
 CAN/CSA-22.2 No. 60079-0:11
 CAN/CSA-22.2 No. 60079-11:11
 CAN/CSA-22.2 No. 60079-15:12
 UL 508
 UL 60079-0: Fifth Edition
 UL 60079-11: Fifth Edition
 UL 60079-15: Third Edition

WARNING: Explosion hazard – Do not disconnect equipment or unplug modules from the pac-Bus type 9194 unless power has been switched off or the area is known to be non-hazardous.

AVERTISSEMENT: Risque d'explosion - Déconnecter l'équipement ou débrancher des modules du pac-Bus type 9194 uniquement après avoir coupé l'alimentation électrique ou avoir vérifié qu'il n'est pas installé en zone dangereuse.

			2012	Date	Name	Certification drawing I.S. Power Supply Type 9143	Scale
			Drawn by	08.02.	Reistle		none
			Checked		<i>Bj</i>		Sheet
						91 436 01 31 2	1 of 1
							Agency
01	20.05.20	Stahl					CSA
Index	Date	Name				Rep. f.	Rep. t.