- For the intrinsically safe supply of power to three- or four-conductor transmitters, solenoid valves, light barriers and controllers
- Stable, adjustable output voltage
- Extensive portfolio with either DC or AC auxiliary power

WebCode 9143A

The 9143 series compact I.S. power supply is used for the intrinsically safe supply of power to field devices, e.g. three- or four-conductor transmitters, solenoid valves, light barriers and controllers. It delivers stable, adjustable output voltage via intrinsically safe outputs.

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

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

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Ex interface		•	•		•	•
Installation in			•			

Selection Table

Min. nominal voltage output	Max. nominal voltage output	Max. nominal current In output	Max. voltage U_o/V_{oc}	Max. current I_o/I_{sc}	Max. power P_o	Power consumption	Connection type	Product Type	Art. No.	Weight
Auxiliary power			24 V AC / DC							
4 V	5.6 V	160 mA	6.5 V	200 mA	1.3 W	–	Screw terminal	**9143/10-065-200-10s**	159820	190 g
9.4 V	10.4 V	180 mA	11.4 V	200 mA	2.28 W	–	Screw terminal	**9143/10-114-200-10s**	159788	190 g
9.5 V	11.8 V	130 mA	12.4 V	150 mA	1.86 W	–	Screw terminal	**9143/10-124-150-10s**	159823	190 g
12.5 V	14.7 V	140 mA	15.6 V	160 mA	2.496 W	–	Screw terminal	**9143/10-156-160-10s**	159797	190 g
Auxiliary power			110 / 115 / 230 V AC							
Min. nominal voltage output	Max. nominal voltage output	Max. nominal current In output	Max. voltage U_o/V_{oc}	Max. current I_o/I_{sc}	Max. power P_o	Power consumption	Connection type	Product Type	Art. No.	Weight
12.5 V	14.7 V	140 mA	15.6 V	160 mA	2.496 W	4.9 VA	Screw terminal	**9143/10-156-160-20s**	159829	190 g

Technical Data

Variant	24 V AC / DC	110 / 115 / 230 V AC
Explosion Protection		
cCSAus certificate	1570027	1570027
Marking cCSAus	Class I, Zone 2, AEx Ex/nA [ib Gb] IIB 1 Gc Class I, Zone 1, Ex nA [ib Gb] Group IIB T4 Gc See doc. 91 436 01 32 2	Class I, Zone 1, [AEx ib Gb]/[Ex ib Gb] Group IIB See doc. 91 436 01 32 2
IECEx gas explosion protection	Ex nA [ib Gb] IIC/IIB T4 Gc	Ex [Ex ib Gb] IIC/IIB

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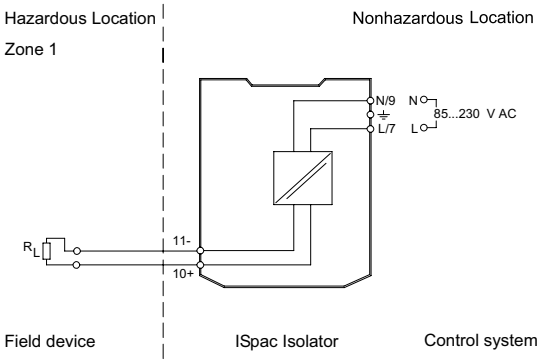
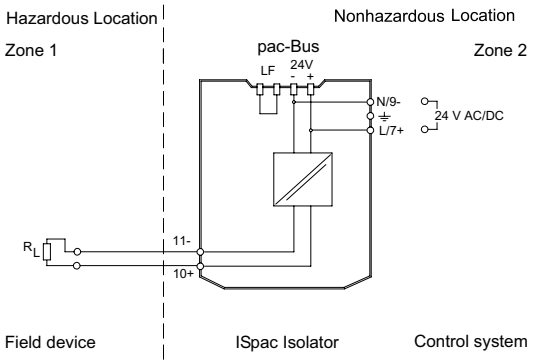
Technical Data

Variant	24 V AC / DC	110 / 115 / 230 V AC
Explosion Protection		
IECEx dust explosion protection	[Ex ib Db] IIIC	[Ex ib Db] IIIC
IECEx firedamp protection	[Ex ib Mb] I	[Ex ib Mb] I
Certificates	ATEX (BVS), Canada / USA (CSA), IECEx (BVS), Korea (KGS)	ATEX (BVS), Canada / USA (CSA), IECEx (BVS), Korea (KGS)
Ship approval	CCS, EU RO MR (DNV)	CCS, EU RO MR (DNV)
Installation	in Zone 2 and in the safe area	in the safe area
Further information	see respective certificate and operating instructions	see respective certificate and operating instructions
Safety Data		
Safety-related max. voltage	253 V	253 V AC
Auxiliary Power		
Auxiliary power voltage range	20 to 28 V AC, 18 to 35 V DC	85 to 230 V AC
Polarity reversal protection	Yes (DC)	no
Galvanic Isolation		
Test voltage	Acc. to IEC EN 60079-11	Acc. to IEC EN 60079-11
Output to power supply	1.5 kV	1.5 kV
Ambient Conditions		
Ambient temperature °F	-4°F ... +158°F (Single device) -4°F ... +140°F (Group assembly)	-4°F ... +158°F (Single device) -4°F ... +140°F (Group assembly)
Ambient temperature °C	-20 °C ... +65 °C (Single device) -20 °C ... +60 °C (Group assembly)	-20 °C ... +65 °C (Single device) -20 °C ... +60 °C (Group assembly)
Storage temperature °F	-40°F ... +176°F	-40°F ... +176°F
Storage temperature °C	-40 °C ... +80 °C	-40 °C ... +80 °C
Mounting / Installation		
Mounting type	DIN rail (NS35/15, NS35/7.5)	DIN rail (NS35/15, NS35/7.5)

Technical Drawings – Subject to Alterations

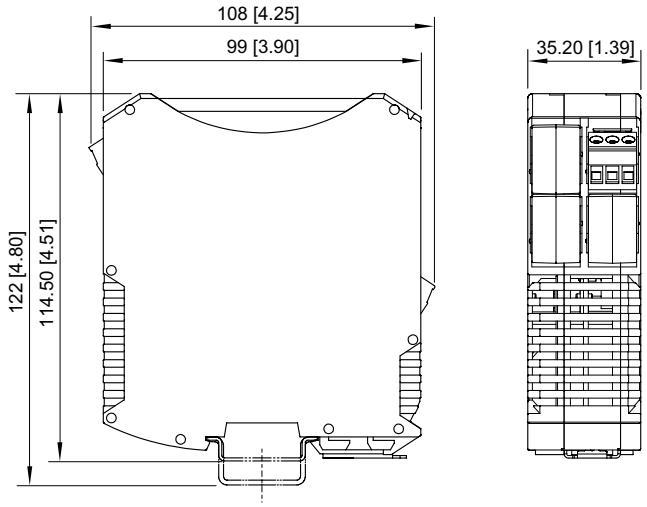


Connection diagram 9143/..-...-...-20.



Connection diagram 9143/..-...-...-10.

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



ISpac Series 9185, 9192 with screw terminal