



- 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

A3

WebCode **9143A**



The 9143 series compact Ex i 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.






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


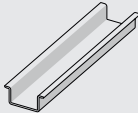
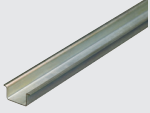

Selection Table									
Auxiliary power		24 V AC / DC							
Min. nominal voltage	Max. nominal voltage	Max. nominal current I_N	Max. voltage U_0	Max. current I_0	Max. power P_0	Product Type	Art. No.	PS	Weight kg
4 V	5.6 V	160 mA	6.5 V	200 mA	1.3 W	9143/10-065-200-10s	159820 ▲	29	0.190
9.4 V	10.4 V	180 mA	11.4 V	200 mA	2.28 W	9143/10-114-200-10s	159788	29	0.190
9.5 V	11.8 V	130 mA	12.4 V	150 mA	1.86 W	9143/10-124-150-10s	159823 ▲	29	0.190
12.5 V	14.7 V	140 mA	15.6 V	160 mA	2.496 W	9143/10-156-160-10s	159797 ▲	29	0.190
Auxiliary power		110 / 115 / 230 V AC							
Min. nominal voltage	Max. nominal voltage	Max. nominal current I_N	Max. voltage U_0	Max. current I_0	Max. power P_0	Product Type	Art. No.	PS	Weight kg
12.5 V	14.7 V	140 mA	15.6 V	160 mA	2.496 W	9143/10-156-160-20s	159829 ▲	29	0.190

The order numbers listed in the table are for devices equipped with screw terminals.

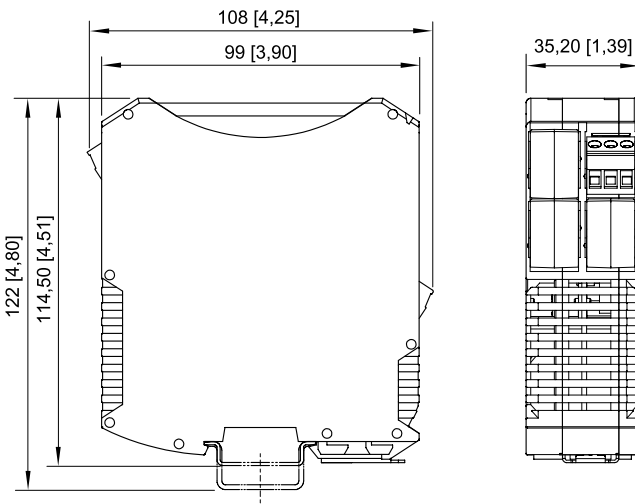
Technical Data		
Variant	24 V AC / DC	9143/10-156-160-20s Ex i power supply
Explosion Protection		
Gas explosion protection IECEx	Ex nA [ib Gb] IIC/IIB T4 Gc	Ex [Ex ib Gb] IIC/IIB
Gas explosion protection ATEX	⊕ II 3 (2) G Ex nA [ib Gb] IIC/IIB T4 Gc	⊕ II (2) G Ex [Ex ib Gb] IIC/IIB
Gas explosion protection EAC	2 Ex nA [ib Gb] IIC/IIB T4Gc X	[Ex ib Gb] IIC/IIB X

Technical Data		
Variant	24 V AC / DC	9143/10-156-160-20s Ex i power supply
Explosion Protection		
Dust explosion protection IECEx	[Ex ib Db] IIIC	[Ex ib Db] IIIC
Dust explosion protection ATEX	⊕ II (2) D [Ex ib Db] IIIC	⊕ II (2) D [Ex ib Db] IIIC
Dust explosion protection EAC	[Ex ib Db] IIIC	[Ex ib Db] IIIC
Firedamp protection IECEx	[Ex ib Mb] I	[Ex ib Mb] I
Firedamp protection ATEX	⊕ I (M2) [Ex ib Mb] I	⊕ I (M2) [Ex ib Mb] I
Certificates	ATEX (BVS), Brazil (ULB), Canada / USA (CSA), EAC (STV), IECEx (BVS), India (PESO), Korea (KGS)	ATEX (BVS), Brazil (ULB), Canada / USA (CSA), EAC (STV), IECEx (BVS), India (PESO), Korea (KGS)
Ship approval	CCS, DNVGL	CCS, DNVGL
Installation	in Zone 2, 22 and in the safe area	in Zone 22 and in the safe area
Further information	see respective certificate and operating instructions	see respective certificate and operating instructions
Safety Data		
Safety-related maximum voltage	253 V	253 V
Auxiliary Power		
Auxiliary power voltage range	20 ... 28 V AC, 18 ... 35 V DC	85 ... 230 V AC
Ambient Conditions		
Ambient temperature	-20 °C ... +70 °C (Single device) -20 °C ... +60 °C (Group assembly)	-20 °C ... +70 °C (Single device) -20 °C ... +60 °C (Group assembly)
Storage temperature	-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)

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Screw terminal			
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: green	112817	0.005
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: black	112816	0.004
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: blue	112818	0.005
Spring clamp terminal			
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: green	112825	0.005
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: black	112824	0.005

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Spring clamp terminal			
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: blue	112826	0.005
DIN rail			
	NS 35 / 15 (available by the metre)	103714 ▲	1.410
DIN rail			
	NS 35 / 7.5 (available by the metre)	103707	0.349
Front cover			
	yellow, transparent. Clear marking of the device for SIL applications. (Packaging unit: 10 pieces)	200914	0.020

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



ISpac Series 9143, 9185, 9192 with screw terminal