

Isolators

Transmitter supply unit

Ex i field circuit

9260/13-11-10s Art. No. 261384



- Universal use for 2-wire transmitters and mA sources (4-wire transmitter)
- Slim design – 12.5 mm wide – for one- and two-channel versions
- Can be used for safety levels up to SIL 2 (IEC/EN 61508)

WebCode 9260A



Series 9260 transmitter supply units can be used for the intrinsically safe operation of two-wire transmitters or intrinsically safe mA sources such as 4-wire transmitters. The device allows HART signals to be transmitted in both directions. The portfolio includes single- and dual-channel devices and a version for signal duplication.

Technical Data

Explosion Protection

Application range (zones)	2
Ex interface zone	0 1 2 20 21 22
IECEx gas certificate	IECEx BVS 17.0079X
IECEx gas explosion protection	Ex nA [ia Ga] IIC T4 Gc
IECEx dust certificate	IECEx BVS 17.0079X
IECEx dust explosion protection	[Ex ia Da] IIIC
IECEx firedamp certificate	IECEx BVS 17.0079X
IECEx firedamp protection	[Ex ia Ma] I
ATEX gas certificate	BVS 17 ATEX E 087 X
ATEX gas explosion protection	⊕ II 3 (1) G Ex nA [ia Ga] IIC T4 Gc
ATEX dust certificate	BVS 17 ATEX E 087 X
ATEX dust explosion protection	⊕ II (1) D [Ex ia Da] IIIC
ATEX firedamp certificate	BVS 17 ATEX E 087 X
ATEX firedamp protection	⊕ I (M1) [Ex ia Ma] I
Certificate cULus	E81680
Marking cULus	Class I, Div. 2, Groups A,B,C,D; Class I, Zone 2, Ex nA Group IIC AIS Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; Class I, Zone 0, [Ex ia] IIC T4 any mounting pos. Ta = 60°C See Doc. 9260 6 031 001 3
Certificates	ATEX (BVS), Canada / USA (UL), IECEx (BVS), SIL (BVS)
Ship approval	DNV GL

Safety Data

Maximum voltage U_o	25.2 V
Maximum current I_o	93 mA
Maximum power P_o	587 mW
Max. permissible external capacitance C_o for IIC	0.107 μ F
Max. permissible external capacitance C_o for IIB	0.82 μ F
Max. permissible external inductance L_o for IIC	2 mH
Max. permissible external inductance L_o for IIB	4 mH
Max. voltage U_i	30 V
Max. current I_i	150 mA
Internal capacitance C_i	Negligible
Internal capacitance C_i isolating repeater	Negligible
Internal inductance L_i	Negligible
Internal inductance L_i isolating repeater	Negligible
Safety-related maximum voltage	253 V AC

Functional Safety

SIL	2
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Electrical Data

Signal types	Analog input
Number of channels	1
Transmitter supply mode	Yes
Isolating repeater mode	Yes
LFD relay	No
Communication signal	HART

Auxiliary Power

Auxiliary power	24 V DC
Auxiliary power nominal voltage	24 V DC
Auxiliary power voltage range	19.2 ... 30 V
Nominal current	76 mA
Max. power dissipation	1.2 W
Power consumption	1.8 W
Polarity reversal protection	Yes
Operation indication	Green "PWR" LED

Galvanic Isolation

Test voltage according to standard	IEC EN 60079-11
Galvanic isolation Ex i input to output	375 V peak value
Galvanic isolation Ex i input to auxiliary power	The maximum value is 375 V
Test voltage according to standard 2	EN 61010 / EN 50178
Galvanic isolation output to auxiliary power	300 V_{eff}
Galvanic isolation output to output	300 V_{eff}

Input

Input function	Isolation amplifier Transmitter power unit
Input	0/4 – 20 mA
Input signal	0/4 ... 20 mA with HART
Input functional range	0 ... 24 mA
Short-circuit current	≥ 22,5 mA
Supply voltage for transmitter	≥ 16 V at 20 mA
Voltage drop	< 3,5 V

Output

Output version (control)	0/4 ... 20 mA active / passive with HART
Output	0/4 ... 20 mA with HART
Output A	0/4 ... 20 mA
Output signal	0/4 ... 20 mA active / passive
Output current at $I_e=0$	0 mA
Output residual ripple	< 20 mV _{eff}
Output functional range	0 – 24 mA
Load resistance R_L max.	1000 Ω
Settling time 10 ... 90 %	< 200 μs
Settling time note	Isolating repeater: < 600 μs
Deviation	≤ 0,1 %
Typical deviation	0.05 %
Temperature influence error limits	< 0.1% / 10 K
Behaviour of the output	= input signal

Ambient Conditions

Ambient temperature	-20 °C ... +60 °C
Ambient temperature	-4 °F ... +140 °F
Storage temperature	-40 °C ... +80 °C
Storage temperature	-40 °F ... +176 °F
Relative humidity max.	10 to 95%
Use at the height of	< 2000 m
Electromagnetic compatibility	EN 61326-1 Use in industrial environment Immunity according to EN 61000-6-2 Interference emission to EN 61000-6-4

Mechanical Data

Degree of protection (IP)	IP30
Terminal degree of protection (IP)	IP20
Fire resistance (UL 94)	V0
Enclosure material	Polyamide
Clamping range AWG	24 – 12
Connection cross-section AWG	24 ... 12
Grid dimension	12.5 mm
Width inches	4.43 in
Length inches	0.49 in
Mounting depth inches	4.51 in
Weight	0.185 kg

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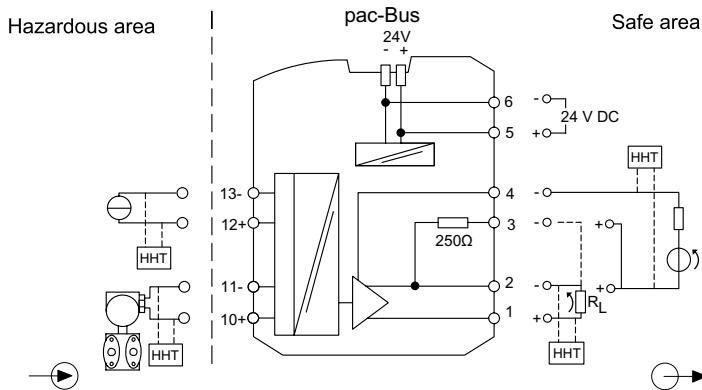
Mechanical Data

Weight	0.41 lb
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Mounting / Installation

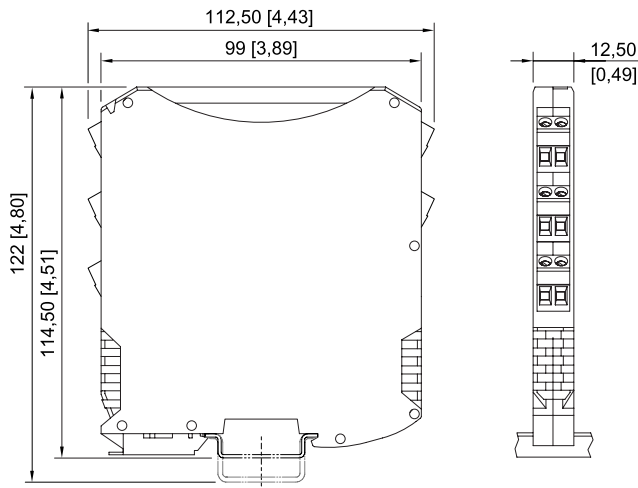
Mounting type	NS35/15, NS35/7.5 DIN rail
Mounting position	Vertical Horizontal
Connection type	Screw terminal
Conductor cross-section solid min.	0.2 mm ²
Conductor cross-section solid max.	2.5 mm ²
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section flexible max.	2.5 mm ²

Technical Drawings – Subject to Alterations



Connection diagram 9260/13-11-10

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



ISpac Series 9260, 9265, 9270, 9275, 9276, 9282 with screw terminal

Accessories and Spare Parts

pac-Bus



Wiring for power supply and common error messaging

Art. No.

262928

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Supply modul

Art. No.



Redundant supply of 24 V DC auxiliary power (with fuse) and reading the collective error message for 92xx series ISpac modules which support this function.

Connection spring clamp terminal

268184

Redundant supply of 24 V DC auxiliary power (with fuse) and reading the collective error message for 92xx series ISpac modules which support this function.

Connection screw terminal

268183

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.