

# Isolator Barriers

Transmitter supply unit

Ex i field circuit

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



- Universal use for 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 Ex i transmitter supply units can be used for the intrinsically safe operation of 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 one- and two-channel devices and a variant 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
ATEX firedamp protection 2	⊕ I (M1) I
cULus certificate	E81680
Marking cULus	Class I, Div. 2, Groups A,B,C,D; Class I, Zone 2, AEx/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), Korea (KTL), SIL (BVS)

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## Explosion Protection

Ship approval	DNV
Notes	CCC, UKCA and metrological certificate available from 2022 onward

## Safety Data

Max. voltage $U_o/V_{oc}$	25.2 V
Max. current $I_o/I_{sc}$	93 mA
Max. power $P_o$	587 mW
Max. permissible external capacitance $C_o/C_a$ for IIC	0.107 $\mu$ F
Max. permissible external capacitance $C_o/C_a$ for IIB	0.82 $\mu$ F
Max. permissible external inductance $L_o/L_a$ for IIC	2 mH
Max. permissible external inductance $L_o/L_a$ for IIB	4 mH
Max. voltage $U_i$	30 V
Max. current $I_i$	150 mA
Internal capacitance	Negligible
Internal capacitance isolation amplifier	Negligible
Internal inductance	Negligible
Internal inductance $L_i$ isolation amplifier	Negligible
Safety-related max. voltage	253 V AC

## Functional Safety

SIL	2
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## Electrical Data

Number of channels	1
Measuring transformer feed operation	Yes
Isolation amplifier operation	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 to 30 V
Nominal current	76 mA
Auxiliary power max. power dissipation	1.2 W
Power consumption	1.8 W
Polarity reversal protection	Yes
Operation indication	Green "PWR" LED

## Galvanic Isolation

Test voltage as per standard	IEC EN 60079-11
Ex i input to output	375 V peak value
Ex i input to auxiliary power	375 V peak value
Test voltage as per standard	EN 61010/EN 50178
Output to auxiliary power	300 $V_{eff}$
Output to output	300 $V_{eff}$

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## Input

Input function	Isolation amplifier Transmitter power unit
Input	0/4 – 20 mA
Input signal	0/4 to 20 mA with HART
Function range input	0 ... 24 mA
Short-circuit current	≥ 22.5 mA
Supply voltage for transmitter	≥ 16 V at 20 mA
Isolation amplifier voltage drop	< 3,5 V

## Output

Output	0/4 to 20 mA with HART
Output signal	0/4 to 20 mA active/passive
Function range output	0 – 24 mA
Output A	0/4 to 20 mA
Output current at $I_e=0$	0 mA
Max. load resistance $R_L$	1000 $\Omega$
Output residual ripple	< 20 mV <sub>eff</sub>
Settling time 10-90%	< 200 $\mu$ s
Settling time note	Isolating repeater: < 600 $\mu$ s
Temperature influence error limits	< 0.1% / 10 K
Deviation	≤ 0,1 %
Typical deviation	0.05 %
Behaviour of the output	= input signal

## Ambient Conditions

Ambient temperature °C	-20 °C ... +60 °C
Ambient temperature °F	-4 °F ... +140 °F
Storage temperature °C	-40 °C ... +80 °C
Storage temperature °F	-40 °F ... +176 °F
Max. relative humidity	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
Degree of protection (IP) terminals	IP20
Fire resistance (UL 94)	V0
Enclosure material	Polyamide
AWG clamping range	24 – 12
Connection cross-section AWG	24 ... 12
Grid dimension	12.5 mm
Width	12.5 mm
Width, inches	0.49 in
Height	114.5 mm
Length	112.5 mm
Length, inches	4.43 in

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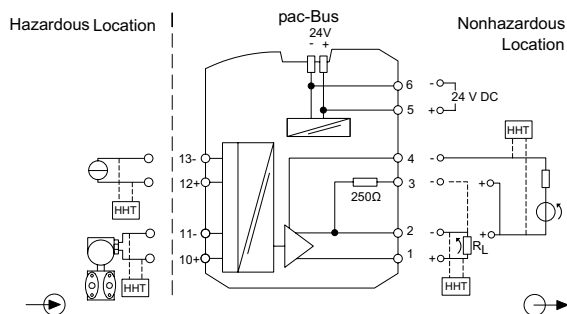
## Mechanical Data

Mounting depth, inches	4.51 in
Weight	0.185 kg
Weight	0.41 lb

## Mounting / Installation

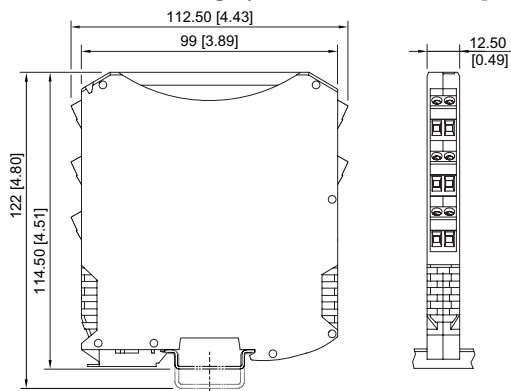
Mounting type	DIN rail NS35/15, NS35/7.5
Mounting orientation	Vertical Horizontal
Connection type	Screw terminal
Min. rigid conductor cross section	0.2 mm <sup>2</sup>
Max. rigid conductor cross section	2.5 mm <sup>2</sup>
Min. flex conductor cross section	0.2 mm <sup>2</sup>
Max. flex conductor cross section	2.5 mm <sup>2</sup>

## 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

### Supply module

		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 screw terminal	268183
	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

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## pac-Bus

## Art. No.



Wiring for power supply and common error messaging

262928

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