

Isolator Barriers

Isolating repeater

Ex i field circuit ISpac

9265/26-11-10s Art. No. 261404



- Compact one- and two-channel Ex i output isolating repeater
- Space savings due to a slim design – 12.5 mm wide
- Can be used up to SIL 2 (IEC/EN 61508)

WebCode 9265A



9265 series Ex i isolating repeaters can be used for the intrinsically safe operation of control valves, I/P transducers or indicators. They transmit superimposed HART communication signals in both directions. The input, output and auxiliary power are galvanically separated from one another. The two channels in the two-channel variants are galvanically separated from one another.

Technical Data

Explosion Protection

Application range (Zones)	2
Ex interface zone	0 1 2 20 21 22
IECEX gas certificate	IECEX BVS 20.0035X
IECEX gas explosion protection	Ex ec [ia Ga] IIC T4 Gc
IECEX dust certificate	IECEX BVS 20.0035X
IECEX dust explosion protection	[Ex ia Da] IIIC
IECEX firedamp certificate	IECEX BVS 20.0035X
IECEX firedamp protection	Ex [Ex ia Ma] I
ATEX gas certificate	BVS 20 ATEX E 045 X
ATEX gas explosion protection	⊕ II 3 (1) G Ex ec [ia Ga] IIC T4 Gc
ATEX dust certificate	BVS 20 ATEX E 045 X
ATEX dust explosion protection	⊕ II (1) D [Ex ia Da] IIIC
ATEX firedamp certificate	BVS 20 ATEX E 045 X
ATEX firedamp protection	⊕ I (M1) Ex [Ex ia Ma] I
ATEX firedamp protection 2	⊕ I (M1) I
cULus certificate	E81680
Marking cULus	Associat. apparatus for use in, Class I, Div. 2, Groups A,B,C,D; Class I, Zone 2, Group IIC providing intrinsically safe circuits for use in Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; Class I, Zone 0, Group IIC See doc. 9265 6 031 001 3
Certificates	ATEX (BVS), Canada / USA (UL), EAC (ENDCE), IECEX (BVS), Korea (KTL), SIL (BVS)
Ship approval	DNV GL

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Explosion Protection

Notes	EAC, CCC, UKCA and metrological certificate available from 2022 onward
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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 μ F
Max. permissible external inductance L_o/L_a for IIC	2 mH
Internal capacitance	Negligible
Internal inductance	Negligible
Safety-related max. voltage	253 V

Functional Safety

SIL	2
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Electrical Data

Number of channels	2
LFD relay	No
Communication signal	HART

Auxiliary Power

Auxiliary power	24 V DC
Nominal voltage V_{nom}	24 V DC
Auxiliary power voltage range	19.2 to 30 V
Nominal current	85 mA
Power consumption	2 W
Max. power dissipation	1.4 W
Polarity reversal protection	Yes
Operation indication	Green "PWR" LED

Galvanic Isolation

Test voltage as per standard	IEC EN 60079-11
Ex i output to auxiliary power	375 V AC peak value
Ex i output to input	375 V AC peak value
Ex i output to Ex i output	60 V
Test voltage as per standard	EN 61010/EN 50178
Input to auxiliary power	300 V_{eff}

Input

Input	0/4 to 20 mA with HART
Input signal	0/4 to 20 mA with HART
Function range input	0 – 24 mA
Maximum input current	50 mA
LF response threshold	$I_E > 3.6$ mA
Behaviour of the input with LF	$RE \geq 1$ M Ω

Output

Output	0/4 to 20 mA with HART
Output signal	0/4 to 20 mA with HART
Function range output	0 – 24 mA

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Output

Max. load resistance R_L	700 Ω
Output residual ripple	≤ 20 mV
Open-circuit voltage U_a	27 V
Settling time 10-90%	≤ 140 μ s
Settling time note	Valid for 4 to 20 mA
Average measurement fault	0,10%
Temperature influence error limits	$\leq 0.1\%/10$ K
Indication of line fault	Red "ERR" LED
Wire breakage error detection	$R_L > 10$ k Ω
Short circuit error detection	$R_L < 50$ ohm

Ambient Conditions

Ambient temperature $^{\circ}$ C	-40 $^{\circ}$ C ... +70 $^{\circ}$ C
Ambient temperature $^{\circ}$ F	-40 $^{\circ}$ F ... +158 $^{\circ}$ F
Storage temperature $^{\circ}$ C	-40 $^{\circ}$ C ... +85 $^{\circ}$ C
Storage temperature $^{\circ}$ F	-40 $^{\circ}$ F ... +185 $^{\circ}$ F
Max. relative humidity	95%
Use at the height of	< 2000 m

Mechanical Data

Degree of protection (IP)	IP30
Degree of protection (IP) terminals	IP20
Fire resistance (UL 94)	V0
Enclosure material	Polyamide
Grid dimension	12.5 mm
Width	12.5 mm
Width, inches	0.49 in
Height	114.5 mm
Height, inches	4.51 in
Length	116 mm
Length, inches	4.57 in
Weight	0.195 kg
Weight	0.43 lb

Mounting / Installation

Mounting type	DIN rail NS35/15, NS35/7.5
Mounting orientation	Horizontal Vertical
Connection type	Screw terminal
Min. rigid conductor cross section	0.2 mm ²
Max. rigid conductor cross section	2.5 mm ²
Min. flex conductor cross section	0.2 mm ²
Max. flex conductor cross section	2.5 mm ²
Connection cross-section AWG	16 – 12

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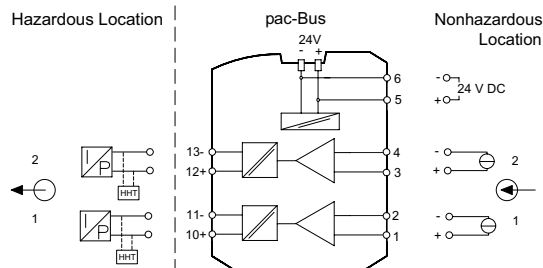
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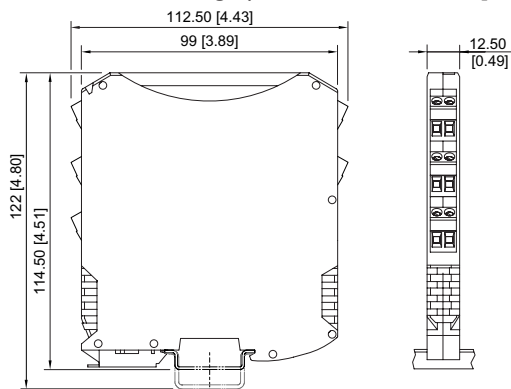


Technical Drawings – Subject to Alterations





Connection diagram 9265/26

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



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

Accessories

		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
	Wiring for power supply and common error messaging	262928

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.