

Isolators

Loop-powered binary output

Ex i field circuit

9276/10-21-60-00s Art. No. 261443



- An extensive portfolio for a wide variety of solenoid valves
- Slim design saves space – just 12.5 mm wide
- For use up to SIL 3 (IEC/EN 61508)

MY R. STAHL 9276A



The Series 9276 binary outputs transmit signals for the intrinsically safe operation of Ex i solenoid valves, indicator lamps and horns. The devices do not require a separate auxiliary power supply as they are powered by the control circuit. The intrinsically safe outputs are galvanically separated from the inputs.

Technical Data

Explosion Protection	
Application range (zones)	2
Ex interface zone	0, 1, 2, 20, 21, 22
IECEX gas certificate	IECEX IBE 17.0045X
IECEX gas certificate	IECEX IBE 17.0045X
IECEX gas explosion protection	Ex ec [ia IIB Ga] IIC T4 Gc
IECEX dust certificate	IECEX IBE 17.0045X
IECEX dust explosion protection	[Ex ia Da] IIIC
IECEX firedamp certificate	IECEX IBE 17.0045X
IECEX firedamp protection	[Ex ia Ma] I
ATEX gas certificate	IBExU 17 ATEX 1153 X
ATEX gas certificate	IBExU 17 ATEX 1153 X
ATEX gas explosion protection	Ex II 3 (1) G Ex ec [ia IIB Ga] IIC T4 Gc
ATEX dust certificate	IBExU 17 ATEX 1153 X
ATEX dust explosion protection	Ex II (1) D [Ex ia Da] IIIC
ATEX firedamp certificate	IBExU 17 ATEX 1153 X
ATEX firedamp protection	Ex I (M1) [Ex ia Ma] 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, [AEx ia]/[Ex ia] IIC T4 any mounting pos. Ta = 60°C See Doc. 9276 6 031 001 3
Certificates	ATEX (IBE), Canada (UL), China (CQM), IECEX (IBE), SIL (exida), USA (UL)
Ship approval	DNV
Declaration of conformity	ATEX (EUK), China (CCC)

Safety Data**Functional Safety**

SIL	3
HFT	0
SFF	100%
Lambda SD	0 FIT
Lambda SU	50 FIT
Lambda DD	0 FIT
Lambda DU	0 FIT

Electrical Data

Number of channels	1
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Auxiliary Power

Auxiliary power	without
Max. power dissipation	1.33 W

Auxiliary Power

Polarity reversal protection	Yes
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Galvanic Isolation

Test voltage as per standard	EN IEC 60079-11
Galvanic separation Ex i output to input	375 V AC peak value

Input

Input voltage for ON	15 – 30 V
Input voltage for OFF	0 – 5 V

Output

Output open-circuit voltage U_a	21.9 V
Max. output current $I_{a \max}$	58 mA
Output internal resistance R_i	133.4 Ω
Switching delay ON/OFF	≤ 20 ms
Switching delay OFF/ON	≤ 20 ms
Response time output	20 ms
Switching state indication	LED

Ambient Conditions

Ambient temperature	-40 °C ... 60 °C
Ambient temperature	-40 °F ... +140 °F
Storage temperature	-40 °C ... 80 °C
Storage temperature	-40 °F ... +176 °F
Maximum relative humidity	10 to 95%
Use at the height of	< 2000 m
Electromagnetic compatibility	EN 61326-1 For use in industrial areas Immunity according to EN 61000-6-2 Interference radiation according 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
Grid dimension	12.5 mm
Width	12.5 mm
Width, inches	0.49 in
Height	114.5 mm
Height in inches	4.51 in
Length	112.5 mm
Width	12.5 mm
Height	114.5 mm
Length in inches	4.43 in
Weight	165 g
Weight	0.36 lb

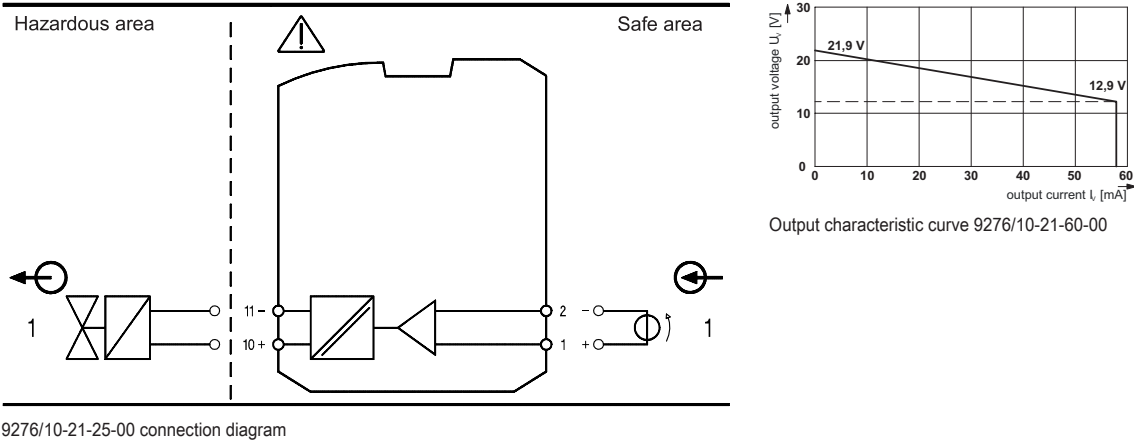
Mounting / Installation

Mounting type	DIN rail NS35/15, NS35/7.5
Mounting orientation	Vertical Horizontal

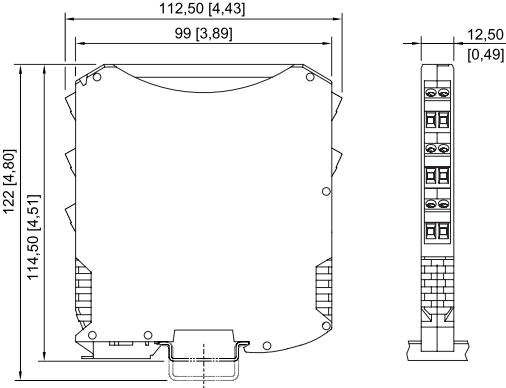
Mounting / Installation

Connection type	Screw terminal
Min. rigid conductor cross section	0.2 mm²
Max. rigid conductor cross section	2.5 mm²
Min. flex conductor cross section	0.2 mm²
Max. flex conductor cross section	2.5 mm²
Connection cross-section AWG	24 ... 14

Technical Drawings – Subject to Alterations



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 out the collective error message from Series 92xx ISpac modules which support this function. Screw terminal connection	268183
 Redundant supply of 24 V DC auxiliary power (with fuse) and reading out the collective error message from Series 92xx ISpac modules which support this function. Spring clamp terminal connection	268184

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pac-Bus		Art. No.
	Wiring auxiliary power and collective error message	262928

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