



INTRINSICALLY SAFE GALVANIC ISOLATOR BARRIER QUICK SELECTION GUIDE



R.STAHL galvanic isolator barriers provide intrinsic safety to field devices located in classified areas like Class I Division 1. They are cost effective, easy to select and easy to install. Available as a single channel or dual channel for all applications. SIL rated, global certified, wide temperature range and compact footprint are just some of the advantages ISpac offers. Reduction of wiring in the panel is possible by using accessory pacBus, which is a modular solution to energize the isolator from the din rail.

| SIGNAL TYPE | SINGLE CHANNEL | DUAL CHANNEL | ENTITY PARAMETERS | | APPLICATION |
|---|------------------|--|--|--|--|
| Analog Input | 9260/13-11-10s | 9260/23-11-10s | Vo: 25.2V Io: 93mA Po: 587mW | | For I.S. 4..20mA signals from the hazardous area going into the safe area. Typical application is 2-wire transmitters. |
| | 9260/19-11-10s | | | | For I.S. 4..20mA signals from the hazardous area into the safe area. Dual output. Typical application is 2-wire transmitters. |
| Analog Output | 9265/16-11-10s | 9265/26-11-10s | Vo: 25.2 Io: 93mA Po: 586mW | | For 4..20mA signals from controller going into the hazardous locations. Typical application is positioning valves. |
| Discrete Input | 9270/11-16-14s | 9270/21-17-14s | Vo: 9.6 V Io: 10mA Po: 25mW | | For I.S. dry contact and NAMUR type signals like prox sensors, push buttons going from hazardous area into controller. |
| | 9170/11-13-21s | 9170/21-12-21s | Vo: 9.6 V Io: 10mA Po: 24mW | | For I.S. dry contact and NAMUR type signals like prox sensors, push buttons going from hazardous area into controller. Power to isolator is 110..230V AC |
| Discrete Input / High frequency | 9270/11-19-15s | 9270/21-14-14s | Vo: 9.6 V Io: 10mA Po: 25mW | | Repeater for high frequency values (for up to 5kHz) for I.S. counters and NAMUR sensors. |
| | 9146/10-11-12s | 9146/20-11-11s | Vo: 10.5 V Io: 23.4 mA Po: 61.4 mW | | For the conversion of I.S. high frequency values (for up to 20kHz) to 0/4..20mA. Configuration cable required. |
| Discrete Output | 9275/10-24-48-11 | 9175/20-14-11s | Vo: 27.06 Io: 91.1 mA Po: 616 mW | Vo: 19.6 V Io: 150 mA Po: 732 mW | To drive field devices like I.S. solenoids, I.S. pilot lights or I.S. beacons/horns. |
| Temperature Input | 9180/10-77-11s | 9180/20-77-11s | Vo: 6.5 V Io: 16.5 mA Po: 27 mW | | RTD repeater providing I.S. TC to PT100 in the hazardous area. For 2-, 3- or 4- RTDs |
| | 9182/10-51-11s | 9182/20-51-11s | Vo: 6.5 V Io: 19.7 mA Po: 32 mW | | For the conversion of I.S. TC or RTDs sensors in the hazardous areas to 0/4..20mA values. Some configurations available via dip switch. Cable configuration required for all possible configurations. CJC required for TC. |
| ACCESSORIES | | | | | |
| Configuration Cable | 9199/20-02 | Cable to configure isolators type 9146, 9162, 9182 | | | |
| CJC Terminal | 9191/VS-05 | Needed when using TC with 9182. One per 9182. | | | |
| SIMPLY FLEXIBLE – ISpac, PAC-CARRIER AND 9192 MUX | | | | | |
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| Energize Isolators from Din Rail using pac-Bus . 9194/50-01 – End/start 9194/31-17 – for all 91XX 9294/31-12 – for all 92XX 9193/21-11-11s – Redundant power | | Minimize wiring and installation time via pac-Carrier 9195/16H-XX0 9295/16HXX0 Optional coupling with 9192 Multiplexer | | Obtain HART data without disturbing your existing installation. 9192/32-10-10 – Mux 9196/16H-XX0 – Terminal board | |

For intrinsically safe loops, all field devices must have an approval certificate from a Nationally Recognized Test Laboratory (FM, UL, CSA, ...) or must be classified as simple apparatus. An entity parameter calculation should be carried out to ensure safe interconnection. Installation must be done in accordance with control drawings.

For more options, contact R.STAHL.

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