





7908

- Provides safe, easy wiring between the backplane and non I.S. automation systems using standard prefabricated I/O cables
- Direct, Redundant and Duplicate signalling including HART I/O
- Robust, compact high-end design solution for 8 system 9000 units
- Digital output and LEDs indicate backplane system status













Application

- The 7908 backplane is a compact and robust solution that enables a safe and easy connection of PR system 9000 IS device signals into standard automation systems.
- · Standard automation system cables and connectors are used to link the backplane to the I/O cards.
- · The backplane can be used for Direct, Redundant, Duplicate signalling including HART I/O System connectivity (HART MUX).
- The system 9000 devices isolate and convert Al, AO, DI and DO signals coming from, or going to the I.S. classified area, and routes those signals to a system automation I/O card.
- The system 9000 units maintain a SIL2/SIL3 level of functional safety, even when mounted in the backplane solution.

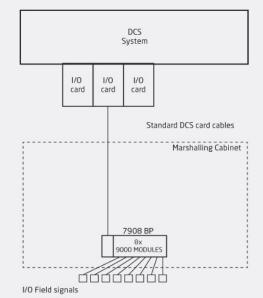
Technical characteristics

- Robust, compact high-end design that holds 8 system 9000 units.
- · Digital output indicates status of the 9000 devices and primary/back-up power supplies.
- Flexible 24 VDC supply voltage and redundant power supply connection solution.

Mounting / installation / programming

- · Flexible horizontal/vertical panel or wall mounting in the Safe or Zone 2 / Div 2 areas.
- System 9000 devices easily snap ON and OFF using piano keys, and devices can be hot-swapped.
- · Tag number and ID labels are easily mounted and read by using the dedicated piano key spacer.
- Wide temperature operation range: -20...+60°C.
- · Backplane selection guide can be found at www.prelectronics.com/backplane

Applications



Order:

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7908	8 module backplane

Environmental Conditions	
Operating temperature	-20°C to +60°C
Storage temperature	-40°C to +85°C
Relative humidity	< 95% RH (non-cond.)
Installation in	Pollution degree 2 & meas. / overvoltage cat. II
Mechanical specifications	
Dimensions (HxWxD)	
Wire size	2.5 mm ² / AWG 12
Wire size	(Supply 1 / 2 and status relay connectors)
Common specifications	
Supply	
Supply voltage	2031.2 VDC (24 DC nom.)
Max. required power	≤ 30 W
Isolation voltage	
Isolation voltage, test /	500 1/4 0 / 50 1/4 0
working	500 VAC / 50 VAC
Isolation voltage, test / working	(Rasic isolation between supply
TOTALIS	1 & 2 and status relay)
Replaceable fuses	Fuse F1 & F2: 1.6 A SB, 250 V, type TR5

Output specifications Status relay Max. voltage.....

	Max. voltage	32 V (Zone 2 / Div. 2 area)	
	Max. voltage	42 V (Safe area)	
	Max. current	100 mA (Zone 2 / Div. 2 area)	
	Max. current	100 mA (Safe area)	
Observed authority requirements			
	EMC	2014/30/EU	
	EAC	TR-CU 020/2011	
	Approvals		
	c UL us, UL 508	E231911	
	ATEX	DEKRA 13ATEX0136X	
	IECEx	DEK 13.0044X	
	FM	0003049918-C	