





# 7916

- 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 16 system 9000 units
- Digital output and LEDs indicate backplane system status













## Application

- The 7916 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 level of functional safety, even when mounted in the backplane solution.

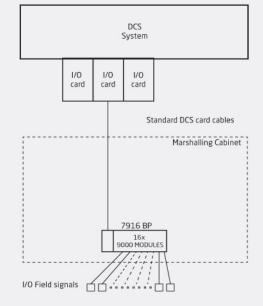
#### **Technical characteristics**

- · Robust, compact high-end design that holds 16 system 9000
- · 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:

7916	16 module backplane

Environmental Conditions Operating temperature Storage temperature Relative humidity Installation in	-40°C to +85°C < 95% RH (non-cond.)
Mechanical specifications	
Dimensions (HxWxD)	
Wire size	
Wire size	(Supply 1 / 2 and status relay connectors)
Common specifications	
Supply	
Supply voltage	,
Supply voltage Max. required power	,
Max. required power	,
Max. required power	≤ 60 W
Max. required power	≤ 60 W
Max. required power	≤ 60 W 500 VAC / 50 VAC

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

Otatas relay		
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		
EAC	TR-CU 020/2011	
Approvals		
c UL us, UL 508	E231911	
ATEX	DEKRA 13ATEX0136X	
IECEx	DEK 13.0044X	
FM	0003049918-C	