





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 AI, 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.

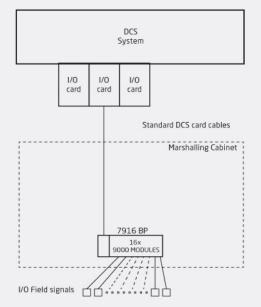
Technical characteristics

- · 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



7916

16 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	
	overvoltage cat II

Mechanical specifications

Dimensions (HxWxD)	144 x 443 x 141 mm
Wire size	2.5 mm ² / AWG 12
Wire size	

2031.2 VDC (24 DC nom.)
≤ 60 W
500 VAC / 50 VAC
(Basic isolation between supply 1 & 2 and status relay)
Fuse F1 & F2: 3.15 A SB, 250 V, type TR5

Output specifications

Status 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	2014/30/EU
EAC	TR-CU 020/2011

Approvals

UL	. UL 508 / C22.2 no. 14
ATEX 2014/34/EU	. DEKRA 13ATEX0136X
IECEx	. DEK 13.0044X
FM	. 0003049918-C