



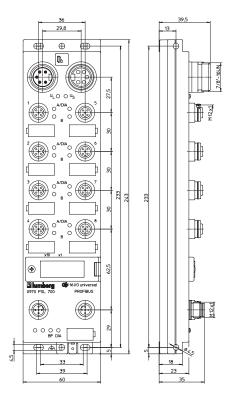
Profibus I/O Modules with 16-Digital Inputs and 16-Digital Outputs

0970 PSL 700



16 IN / 16 OUT (universal)

Profibus-DP device with 16 digital I/O channels, channels can be used universally as inputs or outputs, combined 12 socket, rotary switches for addressing, M12 bus connection, 7/8" power supply.



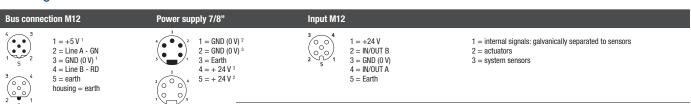
Bit Assignment

Bit	7	6	5	4	3	2	1	0
M12 Input								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A
M12 Output								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A

Diagnostic Indication

LED	Indication	Condition
18 A/B	yellow	channel status
18 A/DIA	red	periphery fault
Us	green	sensor/system power supply
BF	red	bus error
DIA	red	common indication for periphery faults

Pin Assignment



Be Certain with Belden



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Technical Data

Environmental

Degree of protection IP 67

Operating temperature range $-10^{\circ}\text{C} \ (+14^{\circ}\text{F}) \ \text{to} \ +60^{\circ}\text{C} \ (+140^{\circ}\text{F})$

Mechanical

Weight 380 g Housing material PBT

 Bus system
 Profibus

 ID number
 09CA hex

 GSD file
 Lum_09CA.GSD

 Transmission rate
 max. 12 MBaud

 Address range
 1-125 dec

 Rotary address switches
 1-99 dec

 Default address
 99 dec

System/Sensors power supply

Rated voltage 24 V DC
Voltage range 19–30 V DC
Power consumption 120 mA
Reverse polarity protection yes

Input power supply Us

Voltage range min. (USystem - 1.5 V)

Sensor current 100 mA (at Tamb 30°C) per socket

Short circuit-proof yes Indication LED green

Inputs Type 3 acc. to IEC 61131-2

Rated input voltage 24 V DC
Channel type N.O. p-switching
Number of digital channels max. 16

Channel status indicator LED yellow per channel Diagnostic indication LED red per channel

Output power supplyULRated voltage24 V DCVoltage range19–30 V DCReverse polarity protectionyes/antiparallel diode

Indication LED green

Optional disengageable actuator low-voltage detection over integrated

DIP-switch.

Outputs

Rated output current 1.6 A per channel

Short circuit-proof yes

Max. output current 9 A (12 A*) per module

*Test proven and approved under the following conditions:

looped through System/Sensorpower

supply max. 2,5 A

Power supply cable STL 204 (5 x 1.00 mm2)

· Operating temperature range max. 40°C Overload-proof

Overload-proof yes
Number of digital channels max. 16
Channel type N.O. p-switching

Channel status indicator LED yellow per channel
Diagnostic indication LED red per channel/socket

Diagnostic

Module diagnostic and single channel diagnostic according to Profibus specification (please see operating instructions under www.beldensolutions.com/downloads)

Included in delivery/accessories

Dust covers M12 2 pieces
Attachable labels 10 pieces

Part Number

0970 PSL 700



The application of these products in harsh environments should always be checked before use. Specifications subject to alteration.