



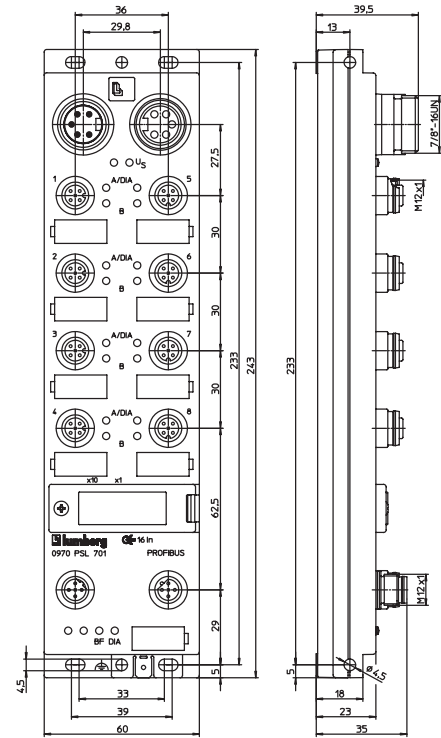
0970 PSL 701



Profibus I/O Modules with 16-Digital Inputs

16 IN

Profibus-DP device with 16 digital inputs to connect standard sensors, combined M12 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

Diagnostic Indication

LED	Indication	Condition
1...8 A/B	yellow	channel status
1...8 A/DIA	red	periphery fault
Us	green	sensor/system power supply
BF	red	bus error
DIA	red	common indication for periphery faults

Pin Assignment

Bus connection M12	Power supply 7/8"	Input M12	
<p>1 = +5 V¹ 2 = Line A - GN 3 = GND (0 V)¹ 4 = Line B - RD 5 = earth housing = earth</p>	<p>1 = GND (0 V) 2 = GND (0 V) 3 = Earth 4 = + 24 V 5 = -</p>	<p>1 = +24 V 2 = IN B 3 = GND (0 V) 4 = IN A 5 = Earth</p>	1 = internal signals: galvanically separated to sensors



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Technical Data

Environmental

Degree of protection	IP 67
Operating temperature range	-10°C (+14°F) to +60°C (+140°F)

Mechanical

Weight	380 g
Housing material	PBT

Bus system

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

Voltage range	min. (U _{System} - 1.5 V)
Sensor current	100 mA (at Tamb 30°C) per socket
Short circuit-proof	yes
Indication	LED green

Inputs

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

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

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

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