Profibus I/O Modules with 8-Digital Inputs and 8-Digital Outputs
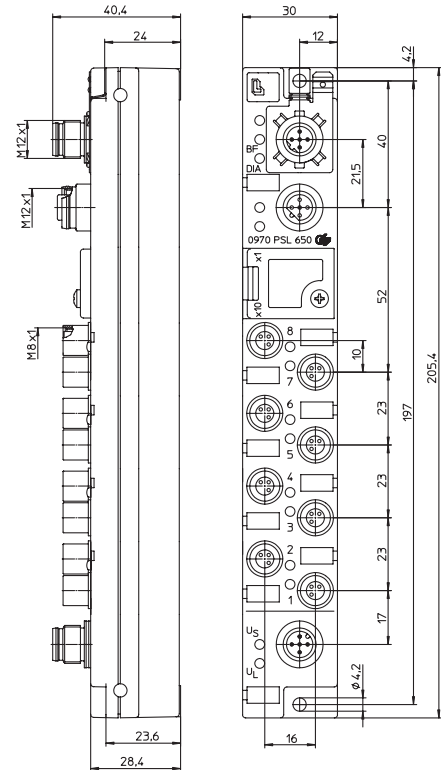
0970 PSL 650

8 IN / 8 OUT (universal)

Profibus–DP device with 8 digital I/O channels, channels can be used universally as inputs or outputs, M8 socket, 3 poles, rotary switches for addressing, M12 bus connection, M12 power supply.

Bit Assignment

Bit	7	6	5	4	3	2	1	0
M8 Input								
Byte 0	8	7	6	5	4	3	2	1
M8 Output								
Byte 0	8	7	6	5	4	3	2	1

Diagnostic Indication

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

Pin Assignment

Bus connection M12	Power supply M12	Input M8	
1 = +5 V [1]	1 = _24 V [2]	1 = +24 V [3]	1 = internal signals: galvanically separated to sensors
2 = Line A	2 = +24 V [3]	3 = GND (0 V)	2 = actuators
3 = GND (0 V)	3 = GND (0 V) [2]	4 = In	3 = system sensors
4 = Line B	4 = GND (0 V) [3]		
5 = earth	5 = Earth		
housing = earth			

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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	200 g
Housing material	PBT

Bus system — **Profibus**

ID number	09C9 hex
GSD file	Lum_09C9.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	90 mA
Reverse polarity protection	yes

Input power supply — **Us**

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 — **Type 3 acc. to IEC 61131-2**

Rated input voltage	24 V DC
Channel type N.O.	p-switching
Number of digital channels	max. 8
Channel status indicator	LED yellow per channel
Diagnostic indication	LED red per channel

Output power supply — **U_L**

Rated voltage	24 V DC
Voltage range	19–30 V DC
Reverse polarity protection	yes/antiparallel diode
Indication	LED green

Outputs

Rated output current	0.5 A per channel
Short circuit-proof	yes
Max. output current	4 A per module
Overload-proof	yes
Number of digital channels	max. 8
Channel type N.O.	p-switching
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 M8	2 pieces
Attachable labels	10 pieces

Part Number

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UL

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

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