



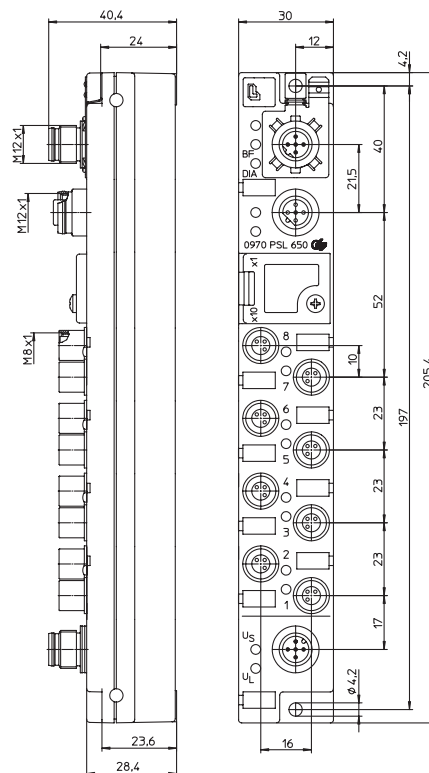
0970 PSL 650



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

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

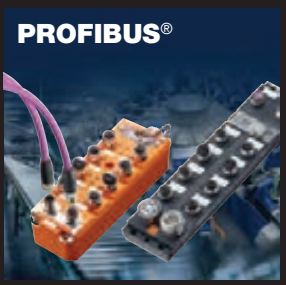
Bit	7	6	5	4	3	2	1	0
M8 Input								
Byte 0	8	7	6	5	4	3	2	1
M8 Output								
Byte 0	8	7	6	5	4	3	2	1

Diagnostic Indication

LED	Indication	Condition
1...8	yellow	channel status
1...8	red	periphery fault
Us	green	sensor/system power supply
UL	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	
 <p>1 = +5 V¹ 2 = Line A 3 = GND (0 V) 4 = Line B 5 = earth housing = earth</p>	 <p>1 = -24 V² 2 = +24 V³ 3 = GND (0 V)² 4 = GND (0 V)³ 5 = Earth</p>	 <p>1 = +24 V³ 3 = GND (0 V) 4 = In</p>	<p>1 = internal signals: galvanically separated to sensors 2 = actuators 3 = system sensors</p>



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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

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

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. 8
 Channel status indicator LED yellow per channel
 Diagnostic indication LED red per channel

Output power supply

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