



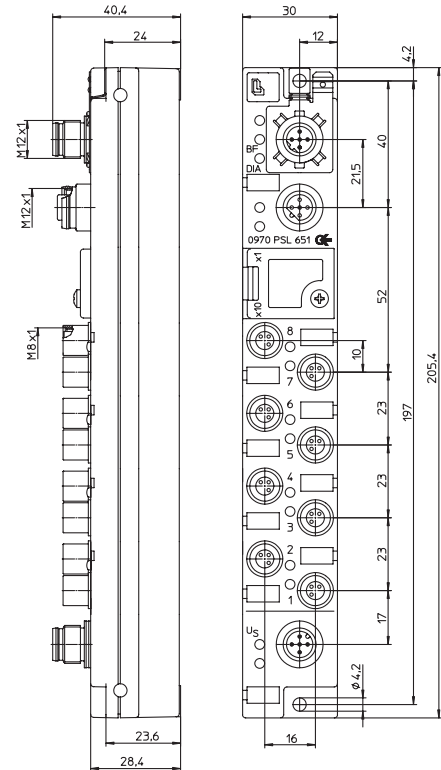
0970 PSL 651



## Profibus I/O Modules with 8-Digital Inputs

### 8 IN

Profibus-DP device with 8 digital inputs to connect standard sensors, 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

### Diagnostic Indication

LED	Indication	Condition
1...8	yellow	channel status
1...8	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 M12	Input M8	
<p>1 = +5 V<sup>I</sup> 2 = Line A 3 = GND (0 V) 4 = Line B 5 = earth housing = earth</p>	<p>1 = - 2 = +24 V<sup>2</sup> 3 = GND (0 V) 4 = GND (0 V) 5 = Earth</p>	<p>1 = +24 V 3 = GND (0 V) 4 = In</p>	<p>1 = internal signals: galvanically separated to sensors 2 = system/sensors</p>



# Be Certain with Belden

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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<sub>System</sub> - 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

#### Diagnostic

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