

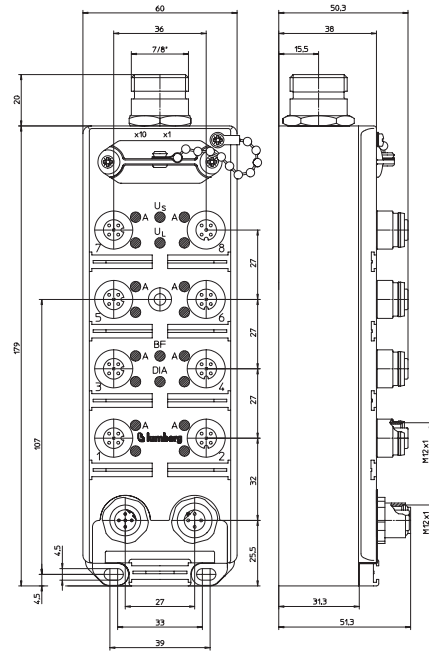


0970 PSL 111



## 16 IN

Profibus-DP device with 16 digital inputs to connect standard sensors, combined M12 socket, rotary switches for addressing, M12 bus connection, M23 power supply.



### Bit Assignment

Bit	7	6	5	4	3	2	1	0
<b>M12 Input</b>								
<b>Byte 0</b>	8A	7A	6A	5A	4A	3A	2A	1A
<b>Byte 1</b>	8B	7B	6B	5B	4B	3B	2B	1B
<b>Diagnostic</b>								
<b>DIA-Byte</b>	-	-	-	OVL	-	-	-	-

OVL: Overload status

### Diagnostic Indication

LED	Indication	Condition
1...8 A/B	yellow	channel status
U <sub>s</sub>	green	sensor/system power supply
U <sub>l</sub>	green	module electronic supply active
BF	red	bus error
DIA	red	module diagnostics (sensor short-circuit / sensor overload)

### Pin Assignment

Bus connection M12	Power supply M23	Input M12	
<p>1 = +5 V<sup>1</sup> 2 = Line A 3 = GND (0 V)<sup>1</sup> 4 = Line B 5 = earth</p>	<p>1 = Earth 2 = n.c. 3 = n.c. 4 = +24 V<sup>2</sup> 5 = GND (0 V)<sup>2</sup> 6 = n.c.</p>	<p>1 = +24 V 2 = n.c. 3 = GND (0 V) 4 = IN 5 = Earth</p>	<p>1 = internal signals 2 = system sensors</p>



# Be Certain with Belden

## Profibus I/O Modules with 16-Digital Inputs

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### Technical Data

#### Environmental

Degree of protection IP 67  
 Operating temperature range -0°C (+32°F) to +60°C (+140°F)

#### Mechanical

Weight 535 g  
 Housing material PUR

#### Bus system

ID number 044E hex  
 GSD file Lum\_044E.gsd  
 Transmission rate max. 12 MBaud  
 Address range 1–126 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

#### Electronics power supply

Rated voltage 24 V DC  
 Voltage range 19–30 V DC  
 Power consumption typ. 60 mA  
 Reverse polarity protection yes  
 Indication LED green

#### Input power supply

Voltage range min. (UL - 1.5 V)  
 Total current of all sensors max. 800 mA  
 Short circuit-proof yes  
 Indication LED green

#### Inputs

Rated input voltage 24 V DC  
 Signal state "1" 11–30 V  
 Signal state "0" -3–5 V  
 Input current at 24 V typ. 6 mA  
 Channel type N.O. p-switching  
 Number of digital channels 16  
 Channel status indicator LED yellow 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 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.