



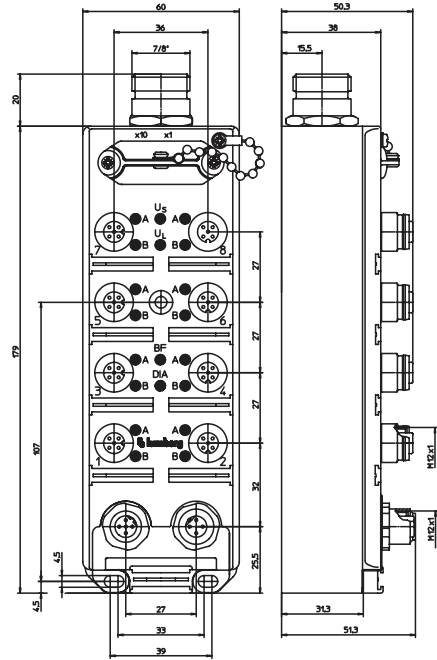
## Profibus I/O Modules with 16-Digital Inputs

0970 PSL 115



### 16 IN

Profibus-DP device with 16 digital inputs to connect standard sensors, combined M12 socket, rotary switches for addressing, M12 bus connection and 7/8" actuator 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
Us	green	sensor/system power supply
UL	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 7/8"	Input M12
<ul style="list-style-type: none"> <li>1 = +5 V<sup>1</sup></li> <li>2 = Line A</li> <li>3 = GND</li> <li>4 = Line B</li> <li>5 = GND</li> </ul>	<ul style="list-style-type: none"> <li>1 = n.c.</li> <li>2 = 0 V<sup>2</sup></li> <li>3 = Earth</li> <li>4 = + 24 V<sup>2</sup></li> <li>5 = n.c.</li> <li>housing = n.c.</li> </ul>	<ul style="list-style-type: none"> <li>1 = +24 V</li> <li>2 = n.c.</li> <li>3 = GND (0 V)</li> <li>4 = IN</li> <li>5 = Earth</li> </ul>
<p>1 = internal signals 2 = system sensors</p>		



# Be Certain with Belden

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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

#### Profibus

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

#### Electronics power supply

#### UL

Rated voltage 24 V DC  
 Voltage range 19 - 28.8 V DC  
 Power consumption typ. 60 mA  
 Reverse polarity protection yes  
 Indication LED green

#### Input power supply

#### US

Nominal voltage 24 V DC  
 Voltage range 19 - 28.8 V DC  
 Total current of all sensors max. 800 mA  
 Short circuit-proof yes  
 Indication LED green

#### Inputs

#### Type 3 acc. to IEC 61131-2

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

#### 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.