



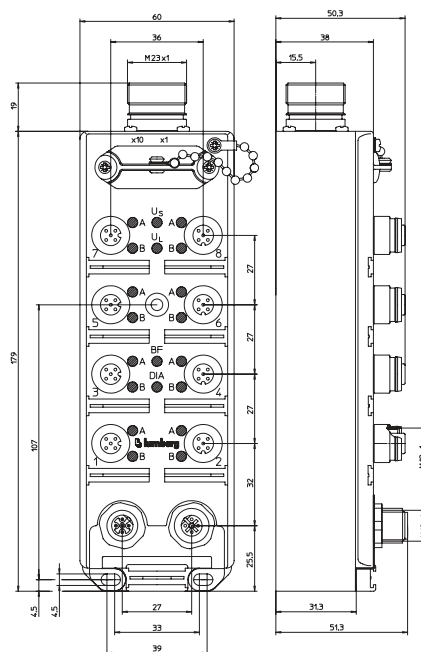
## 0970 PSL 124



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

### 16 OUT

Profibus-DP device with 16 digital outputs (0.5 A) to connect standard actuators, combined M12 socket, rotary switches for addressing, M12 bus connection, M23 systems/actuator supply.



### Bit Assignment

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

UVA: Undervoltage actuator  
ASC: Actuator short-circuit

### Diagnostic Indication

LED	Indication	Condition
1...8 A/B	yellow	channel status
1...8 A/B	red	actuator short-circuit
Us	green	actuator supply active
UL	green	module electronic supply active
BF	red	bus error
DIA	red	module diagnostics (sensor short-circuit / sensor overload)

### Pin Assignment

Bus connection M12	Actuator supply M23	Output M12	
<ul style="list-style-type: none"> <li>1 = +5 V<sup>1</sup></li> <li>2 = Line A</li> <li>3 = GND (0 V)<sup>1</sup></li> <li>4 = Line B</li> <li>5 = earth</li> </ul>	<ul style="list-style-type: none"> <li>1 = Earth</li> <li>2 = +24 V<sup>2</sup></li> <li>3 = GND (0 V)<sup>2</sup></li> <li>4 = +24 V<sup>3</sup></li> <li>5 = GND (0 V)<sup>3</sup></li> <li>6 = n.c.</li> </ul>	<ul style="list-style-type: none"> <li>1 = n.c.</li> <li>2 = OUT B</li> <li>3 = GND (0 V)</li> <li>4 = OUT A</li> <li>5 = Earth</li> </ul>	<ul style="list-style-type: none"> <li>1 = internal signals</li> <li>2 = actuators</li> <li>3 = system</li> </ul>



# 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 06EA hex  
 GSD file Lum\_06EA.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 19–30 V DC  
 Power consumption typ. 60 mA  
 Reverse polarity protection yes  
 Indication LED green

#### Output power supply

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

#### Outputs

**Type 2 A acc. to IEC 61131-2**  
 Rated output current 0.7 A per channel  
 Short circuit-proof yes  
 Max. output current 11.2 A per module  
 Overload-proof yes  
 Number of digital channels 16  
 Channel type N.O. p-switching  
 Channel status indicator LED yellow per channel  
 Diagnostic indication LED red 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.