



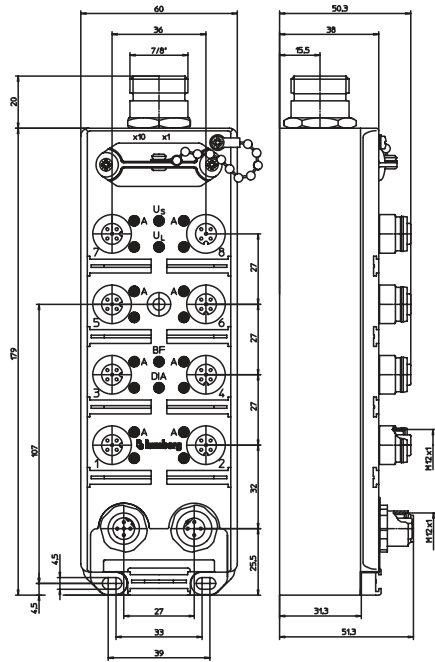
## Profibus I/O Modules with 8-Digital Outputs

0970 PSL 116



### 8 OUT

Profibus-DP device with 8 digital outputs to connect standard actuators, combined M12 socket, rotary switches for addressing, M12 bus connection, 7/8" actuator supply.



### Bit Assignment

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

UVA: Undervoltage actuator  
ASC: Actuator short-circuit

### Diagnostic Indication

LED	Indication	Condition
1...8 A	yellow	channel status
1...8	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 7/8"	Output 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 = earth</li> </ul>	<ul style="list-style-type: none"> <li>1 = 0 V<sup>2</sup></li> <li>2 = 0 V<sup>3</sup></li> <li>3 = earth</li> <li>4 = +24 V<sup>3</sup></li> <li>5 = +24 V<sup>2</sup></li> <li>housing = n.c.</li> </ul>	<ul style="list-style-type: none"> <li>1 = n.c</li> <li>2 = n.c.</li> <li>3 = GND (0 V)</li> <li>4 = OUT</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 (Group 2 Only Server)

ID number 044D hex  
 GSD file Lum\_044D.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

#### Output power supply

#### US

Nominal voltage 24 V DC  
 Voltage range 19–30 V DC  
 Indication LED green

#### Outputs

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

Rated output current 2 A per channel  
 Short circuit-proof yes  
 Max. output current 15 A per module  
 Overload-proof yes  
 Number of digital channels 8  
 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.