



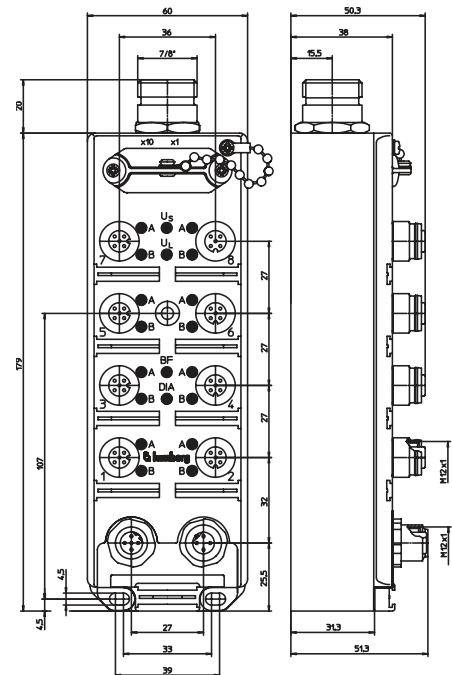
0970 PSL 127



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

### 16 OUT

Profibus-DP device with 16 digital outputs to connect standard actuators, combined M12 socket, rotary switches for addressing, M12 bus connection, 7/8" power supply.



### Bit Assignment

| Bit               | 7  | 6   | 5   | 4  | 3  | 2  | 1  | 0  |
|-------------------|----|-----|-----|----|----|----|----|----|
| <b>M12 Input</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                                                                                                                                             | Power 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<sup>1</sup></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 = OUT B</li> <li>3 = GND (0 V)</li> <li>4 = OUT A</li> <li>5 = earth</li> </ul> |

1 = internal signals  
2 = actuators  
3 = system



# 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

|                         |               |
|-------------------------|---------------|
| 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

|                             |            |
|-----------------------------|------------|
| 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

|                          |            |
|--------------------------|------------|
| Rated voltage            | 24 V DC    |
| Voltage range            | 19–30 V DC |
| Galvanic isolation       | yes        |
| Short circuit protection | yes        |
| Indication               | LED green  |

#### Outputs

|                            |                                |
|----------------------------|--------------------------------|
| Rated output current       | Type 0.5 A acc. to IEC 61131-2 |
| Short circuit-proof        | 0.7 A per channel              |
| Max. output current        | yes                            |
| Overload-proof             | 11.2 A per module              |
| Number of digital channels | yes                            |
| Channel type N.O.          | 16                             |
| Channel status indicator   | p-switching                    |
| Diagnostic indication      | LED yellow per channel         |
|                            | 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.

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