



## 8 OUT

[illegible]

|                   |          |          |          |          |          |          |          |          |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Bit</b>        | <b>7</b> | <b>6</b> | <b>5</b> | <b>4</b> | <b>3</b> | <b>2</b> | <b>1</b> | <b>0</b> |
| <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      | -        | -        | -        | -        | -        |

| 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) |

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



# Be Certain with Belden

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

0970 PSL 112

### 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               | 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        |

#### Profibus

#### Output power supply

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

#### Us

#### Outputs

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

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

#### Included in delivery/accessories

|                   |           |
|-------------------|-----------|
| Dust covers M12   | 2 pieces  |
| Attachable labels | 10 pieces |

### Part Number

0970 PSL 112



The application of these products in harsh environments should always be checked before use.  
Specifications subject to alteration.

# Mouser Electronics

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