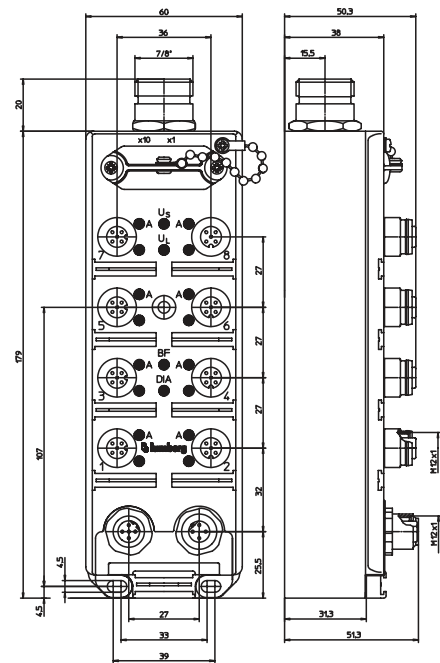# Profibus I/O Modules with 8-Digital Outputs

**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 |
|---|---|---|---|---|---|---|---|---|
| **M12 Output** | | | | | | | | |
| **Byte 0** | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Diagnostic** | | | | | | | | |
| **DIA-Byte** | - | 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 |
| $U_S$ | green | actuator supply active |
| $U_L$ | 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 | |
|---|---|---|---|
|  |  |  | |
| 1 = +5 V [1] | 1 = 0 V [2] | 1 = n.c | 1 = internal signals |
| 2 = Line A | 2 = 0 V [3] | 2 = n.c. | |
| 3 = GND | 3 = earth | 3 = GND (0 V) | 2 = actuators |
| 4 = Line B | 4 = +24 V [3] | 4 = OUT | |
| 5 = earth | 5 = +24 V [2] | 5 = earth | 3 = system |
| | housing = n.c. | | |

## Profibus I/O Modules with 8-Digital Outputs
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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** — $U_L$
| | |
|---|---|
| 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** — $U_S$
| | |
|---|---|
| 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 |

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**Part Number**

0970 PSL 116

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

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