



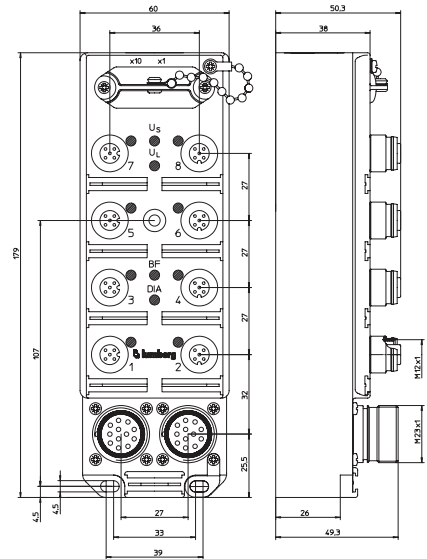
0970 PSL 213



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

### 8 IN

Profibus-DP device with 8 digital inputs to connect standard sensors, combined M12 socket, rotary switches for addressing, M23 bus connection.



### Bit Assignment

Bit	7	6	5	4	3	2	1	0
<b>M12 Input</b>								
<b>Byte 0</b>	8	7	6	5	4	3	2	1
<b>Diagnostic</b>								
<b>DIA-Byte</b>	-	-	-	OVL	-	-	-	-

OVL: Overload status

### Diagnostic Indication

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

### Pin Assignment

#### Bus connection M23



- 1 = GNDI<sup>1</sup>
- 2 = Line A
- 3 = n.c.
- 4 = Line B
- 5 = n.c.
- 6 = VCCI<sup>1</sup>
- 7 = +24 V
- 8 = GND (0 V)
- 9 = Erde / earth
- 10 = n.c.
- 11 = n.c.
- 12 = RTS<sup>1</sup>

housing earth

#### Input M12



- 1 = +24 V
- 2 = n.c.
- 3 = GND (0 V)
- 4 = IN
- 5 = Earth

- 1 = internal signals
- 2 = system sensors



# 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	545 g
Housing material	PUR

#### Bus system

ID number	044F hex
GSD file	Lum_044F.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

#### Input power supply

Voltage range	min. (U <sub>System</sub> - 1.5 V)
Total current of all sensors	max. 800 mA
Short circuit-proof	yes
Indication	LED green

#### Inputs

Rated input voltage	24 V DC
Signal state "1"	11–30 V
Signal state "0"	-3–5 V
Input current at 24 V	typ. 6 mA
Channel type N.O.	p-switching
Number of digital channels	8
Channel status indicator	LED yellow 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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