



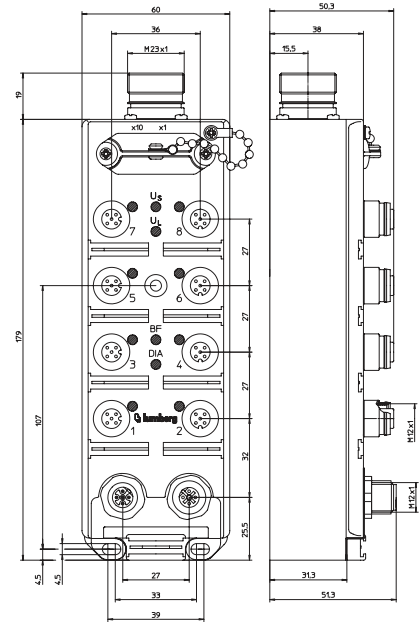
0970 PSL 114



## 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, M12 bus connection, M23 power supply.



### Bit Assignment

Bit	7	6	5	4	3	2	1	0
M12 Input								
Byte 0	8	7	6	5	4	3	2	1
Diagnostic								
DIA-Byte	-	-	-	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 M12	Power supply 23	Input M12	
<p>1 = +5 V<sup>1</sup> 2 = Line A 3 = GND (0 V)<sup>1</sup> 4 = Line B 5 = earth</p>	<p>1 = Earth 2 = n.c. 3 = n.c. 4 = +24 V<sup>2</sup> 5 = GND (0 V)<sup>2</sup> 6 = n.c.</p>	<p>1 = +24 V 2 = n.c. 3 = GND (0 V) 4 = IN 5 = Earth</p>	<p>1 = internal signals 2 = system sensors</p>



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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	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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