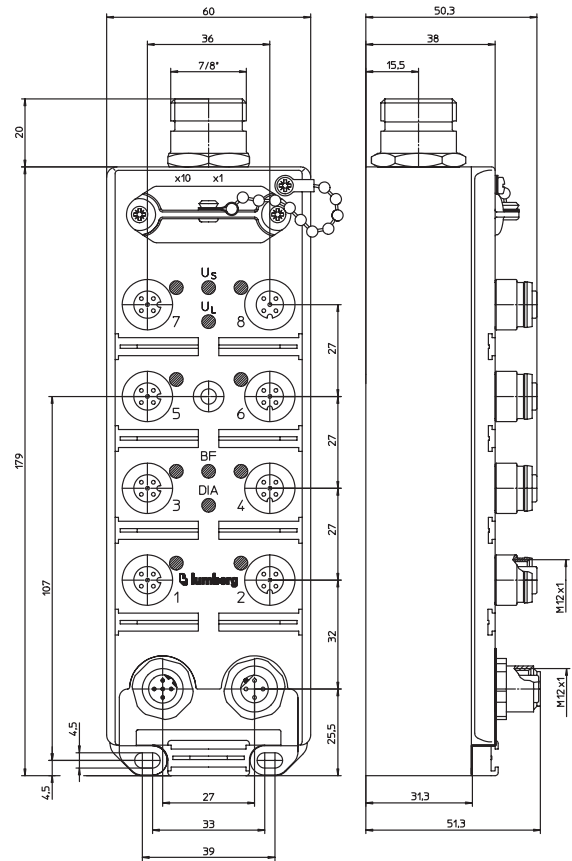


## 0970 PSL 118

8 In

Profibus-DP module with 8 digital inputs (PNP) and Micro (M12) bus connectors. Features: Automatic baud rate detection, Hardware (rotary switches) and Software addressing, short circuit detection, protection degree IP67 / NEMA 6P.



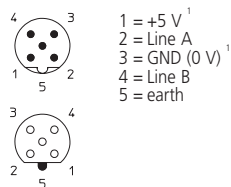
Bit Assignment								
Bit	7	6	5	4	3	2	1	0
<b>M12 Input</b>								
<b>Byte 0</b>	8	7	6	5	4	3	2	1
<b>Diagnostic</b>								
<b>DIA-Byte</b>	-	-	-	OVL	-	-	-	-

OVL: Overload status

Diagnostic indication		
LED	Indication	Condition
1...8	yellow	channel active
U <sub>s</sub>	green	sensor supply active
U <sub>e</sub>	green	module electronic supply active
BF	red	bus error
DIA	red	module diagnostics (e.g. sensor short circuit).

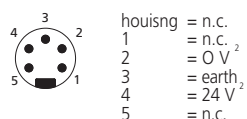
## Pin Assignment

### Bus Connection Micro (M12)



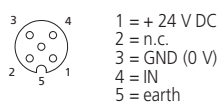
- 1 = +5 V<sup>1</sup>
- 2 = Line A
- 3 = GND (0 V)<sup>1</sup>
- 4 = Line B
- 5 = earth

### Power Supply Mini 7/8"



- housing = n.c.
- 1 = n.c.<sup>2</sup>
- 2 = 0 V<sup>2</sup>
- 3 = earth<sup>2</sup>
- 4 = 24 V
- 5 = n.c.

### Input Micro (M12)



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

- <sup>1</sup> = internal signals
- <sup>2</sup> = System/Sensors



<b>Technical data</b>	
Degree of protection	IP 67
Operating temperature range	0°C(+32°F) / +60°C (+140°F)
Weight	535 g
<b>Bus system</b>	
Transmission rate	Max. 12 MBaud
Default address	1-126 dec; via rotary address switches 1-99 dec; via address ing unit 1-126 dec, default 99
ID	044E hex
GSD data file	Lum_044E.gsd
<b>System power supply</b>	
Nominal voltage	24 V DC
Voltage range	19 - 28.8 V DC
Power consumption	max. 60 mA
Reverse polarity protection	yes
Operating indicator (U <sub>s</sub> )	LED, green
<b>Input power supply</b>	
Nominal voltage	24 V DC
Voltage range	19 - 28.8 V DC
Sensor current	max. 800 mA
Short circuit protection	yes
Sensor power supply indicator (U <sub>s</sub> )	LED, Green
<b>Input levels</b>	
Nominal input voltage	24 V DC
Input circuit	PNP
Number of digital channels	16
Channel status indicator	LED, Yellow

Part Number

I/O

0970 PSL 118

8 Inputs

