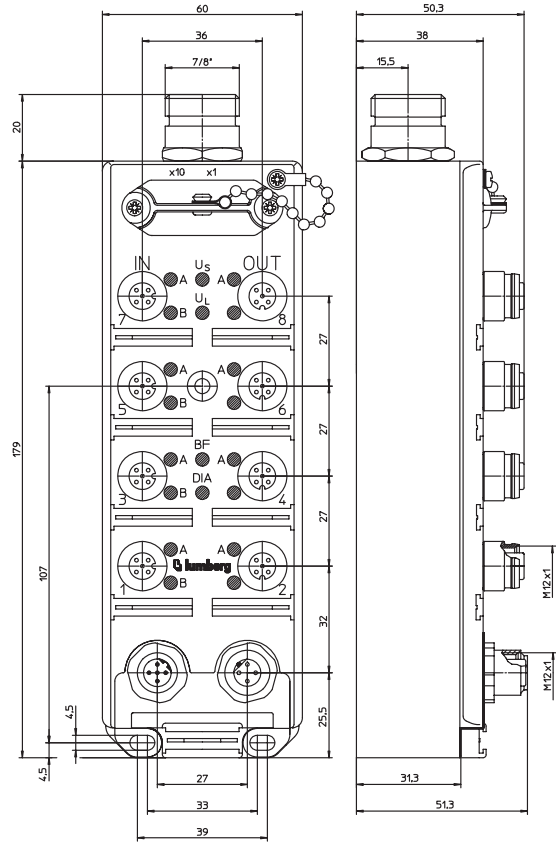


0970 PSL 117
8 In / 4 Out

Profibus-DP module with 8 digital inputs (PNP), 4 digital outputs (2A) and Micro (M12) bus connectors. Features: Automatic baud rate detection, Hardware (rotary switches) and Software addressing, short circuit detection, protection degree IP67 / NEMA 6P.

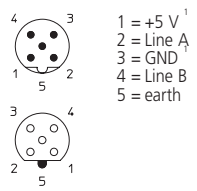
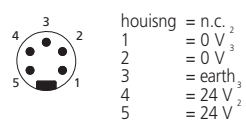
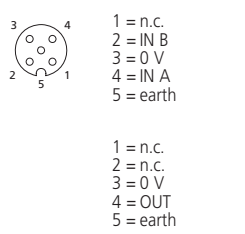

Bit Assignment

Bit	7	6	5	4	3	2	1	0
M12 Input								
Byte 0	7B	5B	3B	1B	7A	5A	3A	1A
M12 Output								
Byte 0	-	-	-	-	8	6	4	2
Diagnostic								
DIA-Byte	-	UVA	ASC	OVL	-	-	-	-

UVA: Undervoltage actuator
 ASC: Actuator short-circuit
 OVL: Overload status

Diagnostic indication

LED	Indication	Condition
1, 3, 5, 7 A/B, 2, 4, 6, 8 A	yellow	channel active
2, 4, 6, 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 (e.g. sensor short circuit).

Pin Assignment
Bus Connection Micro (M12)

Power Supply Mini 7/8"

Input/Output Micro (M12)


¹ = internal signals
² = Actuators
³ = System

Technical data

Degree of protection IP 67
 Operating temperature 0°C(+32°F) /+60°C(+140°F)
 Weight 535 g

Bus system

Transmission rate max. 12 MBaud
 Default address 1 - 126 dec; via rotary address switches 1 - 99 dec; via addressing unit 1 - 126 dec, default 99
 ID 0450 hex
 GSD data file Lum_0450.gsd

System power supply (U_L)

Nominal voltage 24 V DC
 Voltage range 19 V - 28.8 V DC
 Current consumption max. 60 mA
 Reverse polarity protection yes
 Operating indicator (UL) LED green

Input power supply

Nominal voltage (Us) 24 V DC
 Voltage range 19 V - 28.8 V DC
 Total current of all sensors max. 800 mA
 Short circuit protection yes

Input levels

Nominal input voltage 24 V DC
 Input circuit PNP
 Number of digital channels 8
 Channel status indicator Led, yellow

Output power supply

Nominal voltage (Us) 24 V DC
 Voltage range 15 V - 30 V DC
 Galvanic isolation yes
 Short circuit protection yes
 Sensor power supply indicator (U_S) LED, green

Output levels

Nominal output voltage max. 2 A/channel
 max. 9 A/module
 Output current max. 2.4 A/channel
 Number of digital channels 8
 Channel type PNP, N.O. short circuit proof
 Channel status indicator LED, yellow

Part Number

I/O

0970 PSL 117

8 Inputs / 4 Outputs

