



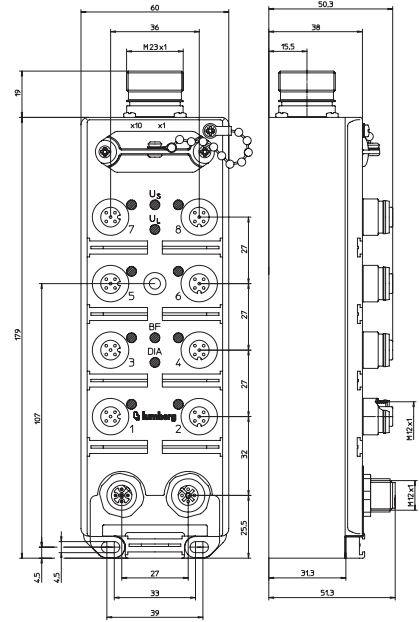
Profibus I/O Modules with 8-Digital Inputs

0970 PSL 114



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 V¹ 2 = Line A 3 = GND (0 V)¹ 4 = Line B 5 = earth</p>	 <p>1 = Earth 2 = n.c. 3 = n.c. 4 = +24 V² 5 = GND (0 V)² 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

Profibus
 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

UL
 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

Us
 Voltage range min. (U_{System} - 1.5 V)
 Total current of all sensors max. 800 mA
 Short circuit-proof yes
 Indication LED green

Inputs

Type 3 acc. to IEC 61131-2
 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.