



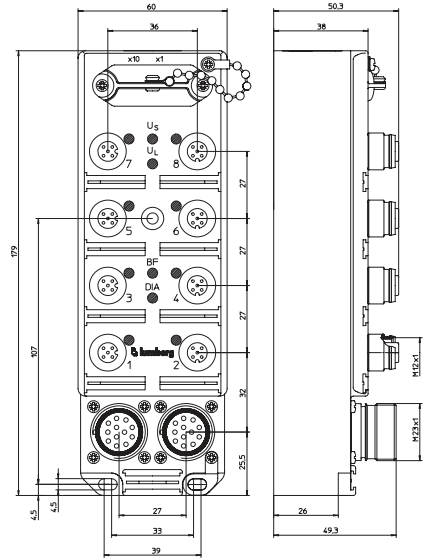
Profibus I/O Modules with 8-Digital Inputs

0970 PSL 213



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
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 M23



- 1 = GNDI¹
 - 2 = Line A
 - 3 = n.c.
 - 4 = Line B
 - 5 = n.c.
 - 6 = VCCI¹
 - 7 = +24 V
 - 8 = GND (0 V)
 - 9 = Erde / earth
 - 10 = n.c.
 - 11 = n.c.
 - 12 = RTS¹
- 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

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.