



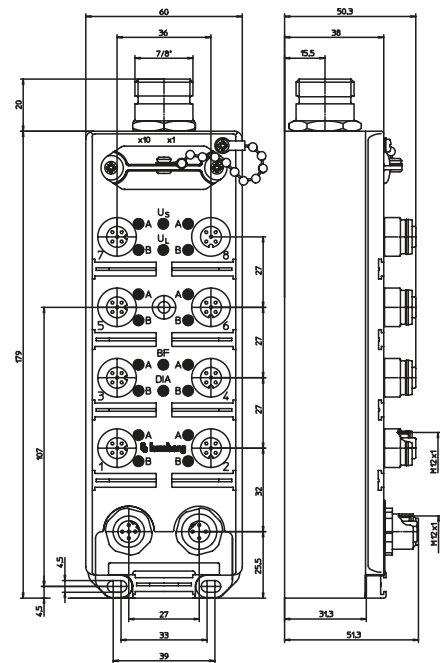
0970 PSL 115



Profibus I/O Modules with 16-Digital Inputs

16 IN

Profibus-DP device with 16 digital inputs to connect standard sensors, combined M12 socket, rotary switches for addressing, M12 bus connection and 7/8" actuator supply.



Bit Assignment

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

OVL: Overload status

Diagnostic Indication

LED	Indication	Condition
1...8 A/B	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 7/8"	Input M12
1 = +5 V¹ 2 = Line A 3 = GND 4 = Line B 5 = GND	1 = n.c. 2 = 0 V² 3 = Earth 4 = + 24 V² 5 = n.c. - housing = n.c.	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	535 g
Housing material	PUR

Bus system

ID number	044E hex
GSD file	Lum_044E.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 - 28.8 V DC
Power consumption	typ. 60 mA
Reverse polarity protection	yes
Indication	LED green

Input power supply

Nominal voltage	24 V DC
Voltage range	19 - 28.8 V DC
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	16
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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