



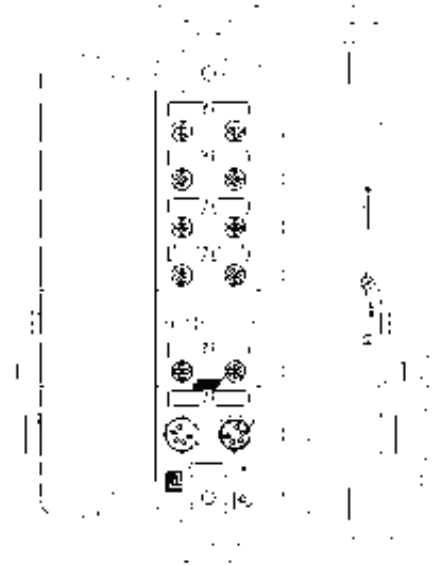
0970 PSL 811-PB-DP 16DI-M12-R



Rugged PROFIBUS-DP I/O Modules with 16-Digital Inputs

16 IN

LioN-R PROFIBUS-DP module with 16 digital inputs for connecting standard sensors, 8 x M12 sockets, A-coded, 5 poles, rotary switch for setting addresses, PROFIBUS connection, 2 x M12, 5 poles, B-coded, 2 x 7/8" power supply, 5 poles






Bit Assignment

Bit	7	6	5	4	3	2	1	0
M12 Input 16DI								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A

Diagnostic Indication

LED	Indication	Condition
Us	Green	Logic/sensor power supply OK
Us	Red	Logic/sensor power supply outside limits
UL	Green	Actuator power supply OK
UL	Red	Actuator power supply outside limits
1...8 A	Yellow	Channel status
1...8 DIA A	Red	Periphery error
1... 8 B	White	Channel status
1... 8 DIA B	Red	Periphery error
ACT	Yellow	PROFIBUS communication active
BF	Red	Bus error, no data exchange with controller
BF	Green	Data exchange with controller
DIA	Green	No peripheral error message available
DIA	Red	Peripheral error message to controller

Pin Assignment

Bus connection M12 (B-Coded)	Power supply 7/8"	Input M12 (A-Coded)
 <p>1 = VP (+5V) ¹ 2 = Line A 3 = DGND (0V) ¹ 4 = Line B 5 = n.c. Housing = shielded</p>	 <p>1 = GND Actuator UL 2 = GND System/Sensor US 3 = Earth (FE) 4 = +24 V System/Sensor US 5 = +24 V Actuator UL Housing = FE</p>	 <p>1 = +24 V DC 2 = IN B 3 = GND (0 V) 4 = IN A 5 = Earth (FE)</p>

¹ = * Signals isolated galvanically from sensors/actuators



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Technical Data

Environmental

Degree of protection IP 67
Operating temperature range -10°C (+14°F) to +60°C (+140°F)

Mechanical

Weight 615 g
Housing material Metal (diecast zinc)

Bus system

ID number OE94
GSD file Lum_OE94.gsd
Transmission rate max. 12 MBaud
Address range 1–125 dec (default address: 126 dec)

System/Sensors power supply

Rated voltage 24 V DC
Voltage range 18–30 V DC
Power consumption typ. 60 mA

Input power supply

Voltage range min. (U_{System} - 1.5 V)
Sensor current/port 200 mA (at T_{amp} = +30°C)
Indicator LED green/red

Inputs

Rated input voltage 24 V DC
Number of digital channels 16
Sensor type PNP (source)
Status indicator LED yellow channel A/LED white channel B
Diagnostic indicator LED red per port

Included in delivery/accessories

Dust covers M12 4 pieces
Attachable labels 10 pieces

Part Number	Order Number
0970 PSL 811-PB-DP 16DI-M12-R	934-770-001



The application of these products in harsh environments should always be checked before use.
Specifications subject to alteration.