



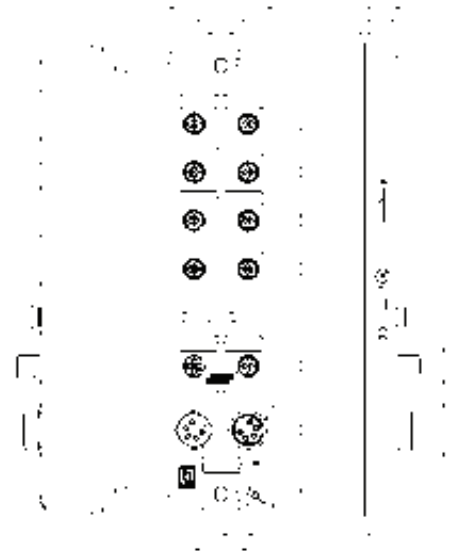
0970 PSL 812-PB-DP 16DO-M12-R



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

16 OUT

LioN-R PROFIBUS-DP module with 16 digital outputs, galvanically isolated, for connecting standard actuators, 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 Output 16DO								
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	White	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"	Output 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</p>	<p>1 = n. c. 2 = OUT B 3 = GND 4 = OUT A 5 = Earth (FE) Housing = 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

Actuator power supply

Rated output current	24 V DC
Voltage range	18 to 30 V DC
Reverse polarity protection	yes/permanent inverse polarity protection
Indicator	LED green

Outputs

Rated output current	Type 3 acc. to IEC 61131-2
Short circuit proof	1.6 A per channel
Max. current carrying capacity	yes
Number of digital channels	9 A per module
Channel type N.O.	16
Status indicator	p-switching
Diagnostic indicator	LED yellow channel A/LED white channel B
	LED red per port

Included in delivery/accessories

Dust covers M12	4 pieces
Attachable labels	10 pieces

Part Number	Order Number
0970 PSL 812-PB-DP 16DO-M12-R	934-770-002



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