

LioN-Link I/O Module with 8 Digital Inputs and 4 Digital or Analog Outputs (Motion Drive Control)

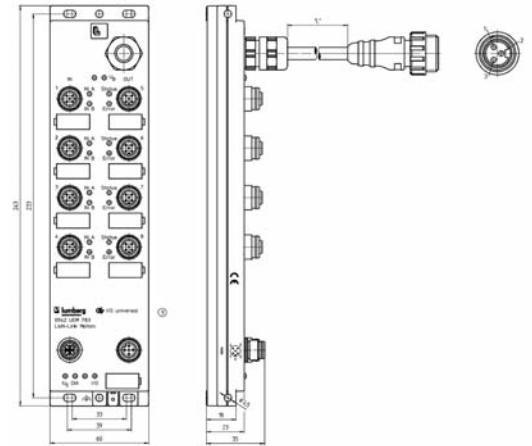
0942 UEM 783



8 IN/4 OUT (digital or analog)

LioN-Link Motion module with 8 digital inputs and 4 universal outputs that can be configured for the connection of brushless motors, DC motors or for valves. System specific specifications such as speed and acceleration/deceleration can be transmitted via the DP-V1* protocol. Power supply is via a connecting cable with 7/8" connector.

* = Only with 0940 PSL 602







Bit Assignment

Bit	7	6	5	4	3	2	1	0
M12 Input								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
M12 Output								
	Socket 8	Socket 7	Socket 6	Socket 5				
Byte 0	Dir	Start	Dir	Start	Dir	Start	Dir	Start

Diagnostic Indication

LED	Indication	Condition
1...4 A/B	yellow	channel status
1...4 A/B	red	periphery faults (actuator short circuit/overload)
I/O	red red flashing green	wrong configuration/module exchanged not recognized by the BusHead online, communication with BusHead
U _s	green	sensor/system power supply
U _L	green	actuator power supply
DIA	red	common indication for periphery faults

Pin Assignment

LioN-Link connection M12	Actuator / sensor connection M12	Power supply for motors
 1 = Drain 2 = 24 V Sensor/System 3 = 0 V Sensor/System 4 = Data + 5 = Data -	 In 1 = +24 V DC 2 = In B 3 = 0 V 4 = In A 5 = Earth	 Out 1 = +24 V DC 2 = Dir 3 = 0 V 4 = Dia 5 = Speed (0-10 V)
		 Function Wire color 1 = Diag. Out Black 2 = +24 V Brown 3 = 0 V Blue

Technical Data

Degree of protection	IP 67
Operating temperature range	-10°C/+60°C
Weight	175 g
Housing material	PBT

System/sensors

power supply	U_S
Rated voltage	24 V DC
Voltage range	19–30 V DC
Power consumption	typ. 100 mA
Reverse polarity protection	no
Operating indication	LED green

Input power supply

U_S	
Voltage range	24 V DC
Sensor current	700 mA/module
Short circuit proof	yes
Indication	LED green
Connection	M12 connector (5 poles), see pin assignment

Input wiring

Type 3 acc. to IEC 61131-2	
Rated input voltage	24 V DC
Input current at 24 V DC	typ. 5 mA
Short circuit proof	yes
sensor supply	yes
Channel type N.O.	p-switching
Number of digital channels	max. 8
Channel status indicator	LED yellow per channel
Diagnostic indication	LED red per channel
Connection	M12 coupling (5 poles), see pin assignment

Output power supply

U_L	
Rated voltage	24 V DC
Voltage range	19–27 V DC
Reverse polarity protection	yes/antiparallel diode
Indication	LED green
Connection	7/8" connector (3 poles), see pin assignment

Output wiring I

Rated output current	1.5 A per channel
Signal status "1"	max. 4 A (max. 50 ms)
Signal status "0"	max. 1 mA (standard specification)
Short circuit proof	yes
Max. output current	7.2 A per module
Overload proof	yes
Number of digital channels	max. 4
Channel type N.O.	p-switching
Channel status indicator	LED yellow per channel
Diagnostic indication	LED red per channel
Connection	M12 coupling (5 poles), see pin assignment

Output wiring II

Voltage range	0–10 V DC (motor dependent)
Number of channels	max. 4 analog
Channel type	PWM output
Connection	M12 coupling (5 poles), see pin assignment

Included in delivery/accessories

Dust covers M12, attachable labels

Diagnostic

Periphery fault diagnosis for sensor short circuit, actuator short circuit/channel, sensor low voltage detection

Note

Only to be used in combination with BusHead 0940 PSL 602. Module used to control brushless (EC) motors as well as brush loaded (DC) motors and all types of digital actuators (e.g. valves or direct current motors)

Designation

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