

## LioN-Link I/O Module with 8 Digital Inputs and Outputs (Shadow Mode)

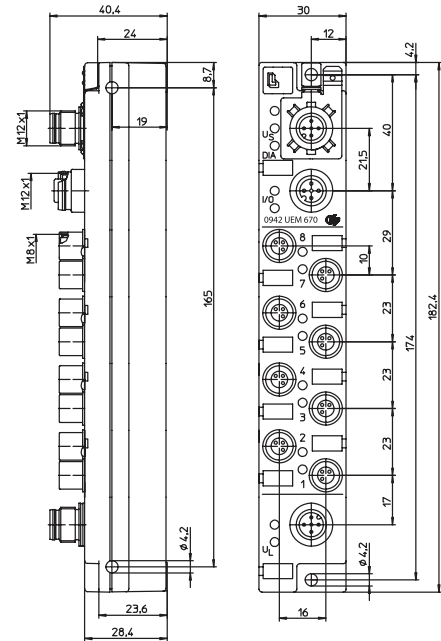
0942 UEM 670



### 8 IN / 8 OUT (Universal)

LioN-Link I/O module with 8 digital I/O channels, channels can be used universally as inputs or outputs, M8 sockets, 3 poles Input or output functionality can be switched off while retaining the respective address range\*.

\* = Only with 0940 PSL 603






### Bit Assignment

Bit	7	6	5	4	3	2	1	0
<b>M8 Input</b>								
Byte 0	8	7	6	5	4	3	2	1
<b>M8 Output</b>								
Byte 0	8	7	6	5	4	3	2	1

### Diagnostic Indication

LED	Indication	Condition
1...8	yellow	channel status
1...8	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
Us	green	sensor/system power supply
Ul	green	actuator power supply
DIA	red	common indication for periphery faults

### Pin Assignment

LioN-Link connection M12	Actuator/sensor connection M8	Actuator supply M12
 <ul style="list-style-type: none"> <li>1 = Drain</li> <li>2 = 24 V Sensor/System</li> <li>3 = 0 V Sensor/System</li> <li>4 = Data +</li> <li>5 = Data -</li> </ul>	 <ul style="list-style-type: none"> <li>1 = +24 V</li> <li>3 = 0 V</li> <li>4 = In /Out</li> </ul>	 <ul style="list-style-type: none"> <li>1 = +24 V</li> <li>2 = n.c.</li> <li>3 = GND (0 V)</li> <li>4 = n.c.</li> <li>5 = Earth</li> </ul>



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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 175 g  
 Housing material PBT

**System/sensors**

**power supply** **Us**  
 Rated voltage 24 V DC  
 Voltage range 19–30 V DC  
 Power consumption typ. 70 mA  
 Operating indication LED green

**Input power supply** **Us**

Voltage range 24 V DC  
 Sensor current 700 mA/module  
 Short circuit proof yes  
 Indication LED green

**Input wiring** **Type 3 acc. to IEC 61131-2**

Rated input voltage 24 V DC  
 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

**Output power supply** **Ul**

Rated voltage 24 V DC  
 Voltage range 19–30 V DC  
 Reverse polarity protection yes/antiparallel diode  
 Indication LED green

**Output wiring**

Rated output current 0.5 A per channel  
 Short circuit proof yes  
 Max. output current 4 A per module  
 Overload proof yes  
 Number of digital channels max. 8  
 Channel type N.O. p-switching  
 Channel status indicator LED yellow per channel  
 Diagnostic indication LED red per channel

**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**

This I/O module can only be used with the BusHead 0940 PSL 603. In addition to being used as a dedicated input or output module, this module can also be operated in Shadow Input and Shadow Output mode. The process data in both modes is 1 input and 1 output byte. In Shadow Input mode the input byte is set to 0. The outputs can be activated via the output byte. In Shadow Output mode, however, the outputs cannot be activated and the inputs can be used normally.

**Part Number**

0942 UEM 670



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