



**Product information**  
**0910 ASL 146**  
**107972**

Name	
Name	0910 ASL 146
Image	
Description	AS-Interface module with M12 bus connection and 4 digital inputs for 2-wire or 3-wire sensors as well as 4 digital outputs to connect standard actuators, M12 socket
Delivery informations	
Availability	available
Product description	
Type	0910 ASL 146
Order No.	107972
Description	AS-Interface module with M12 bus connection and 4 digital inputs for 2-wire or 3-wire sensors as well as 4 digital outputs to connect standard actuators, M12 socket
Diagnostics	Peripheral faults such as short circuit or overload are reported as group diagnostics to the master. In addition, there is a diagnostic LED on each slave.
Note	This AS-Interface module conforms to AS-i specification 3.0 and can only be operated with a master, which also supports 3.0. The input and output channels are connected in pairs on the signal side. This allows a bigger variety of connections (see pin assignment). When connecting a dual-channel sensor/actuator to input/output socket 1 or 3, the sockets 2 and 4 may not be connected with another sensor/actuator due to the cross-wiring of the inputs/outputs. The use of these products in aggressive media should be checked in individual cases. Subject to technical changes!
Color of housing	orange
Product characteristics	Oil resistance, EMC resistance, Vibration resistance
Classification	
Belden class	I/O Modules with Digital Inputs and Outputs (DI/DO)
Belden brand	Lumberg-Automation
Mechanical data	
Weight	300 g
Dimensions (W x H x D)	60 mm x 152 mm x 35.8 mm
Environmental conditions	
Environmental temperature	-25 °C ... 80 °C
Degree of protection (IP), mounted	IP67
Materials	
Housing material / Molded body	PUR
Approvals	
Approvals	UL pending
Bus system	
Fieldbus system	AS-Interface Version 3.0
Bus Connection	M12, A coded
Number of contacts	4
Device Identification	AS-Interface profile: S-7.A7; I/O configuration: 7 hex; ID code: A hex; ID2 code: 7 hex
Support A/B addressing	Yes
Supply Fieldbus Interface	
Supply Fieldbus Interface	AS-Interface net
Voltage range (Supply Fieldbus Interface)	26.5 - 31.6 V DC
Current consumption (Supply Fieldbus Interface)	max. 250 mA
Reverse polarity protection (Supply Fieldbus Interface)	Yes
Function Indicator (Supply Fieldbus Interface)	LED green
Sensors power supply	
Voltage range (Sensor power supply)	17-30 V
Sensor current (at TU30°C) (Sensor power supply)	max. 200 mA

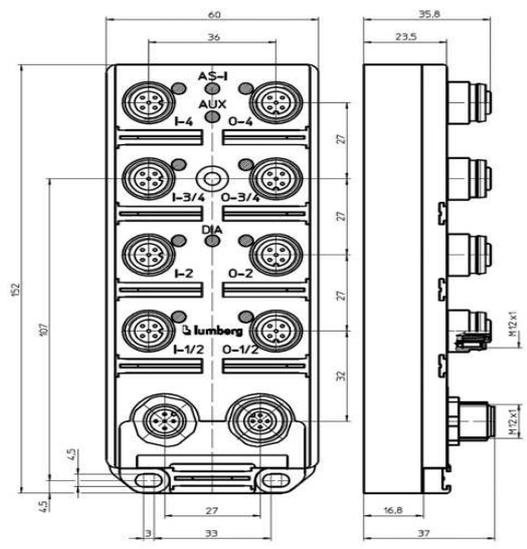
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Short-circuit proof (Sensor power supply)	Yes
<b>Actuator power supply</b>	
Actuator power supply	AUX with potential separation
Nominal voltage (Actuator power supply)	24 V DC
Voltage range (Output power supply)	10 V ... 30 V
Reverse polarity protection (Output power supply)	Yes
Indication (Output power supply)	LED green
<b>Inputs</b>	
Input wiring	Type 2 acc. to IEC 61131-2
Signal type (Inputs)	Digital Inputs
Number of channels (Inputs)	4
Channel type (Inputs)	N.O., p-switching
Nominal input voltage	24 V DC
Voltage (Signal status "1") - Explanation	$U_S > 11 V / I_S > 6 mA$
Voltage (Signal status "0") - Explanation	$I_S < 2 mA$
Channel status indicator (Inputs)	LED yellow per channel
Input current at 24 V DC (typ.)	15 mA
<b>Outputs</b>	
Output wiring	Type 2 A acc. to IEC 61131-2
Number of channels (Outputs)	4
Channel type (Outputs)	N.O., p-switching
Nominal output current per channel	2 A
Short-circuit proof (Outputs)	Yes
Max. output current per module (Outputs)	4 A per module
Overload-proof (Outputs)	Yes
Channel status indicator (Outputs)	LED yellow per channel
Diagnostic indication (outputs)	LED red
<b>Scope of delivery and accessories</b>	
Scope of delivery	Dust covers M12 - 2 pieces, Attachable label - 10 pieces

**Picture**

**Drawing**



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