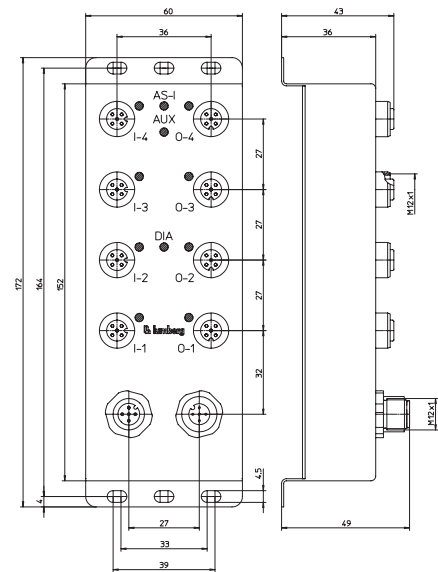# AS-Interface Module with 4-Digital Inputs and 4-Digital Outputs

0910 ASL 425

4 IN / 4 OUT

AS-Interface module with housing and receptacle shells in stainless steel, 4 digital inputs to connect standard sensors and 4 digital outputs (2 A) to connect standard actuators, M12 bus connection.
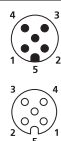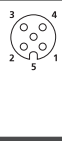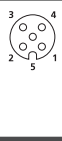
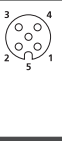– especially designed for food and beverage equipment –
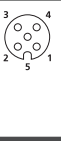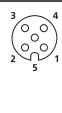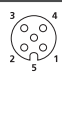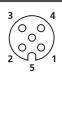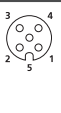
Bit Assignment

Bit	-	-	-	-	3	2	1	0
M12 Input								
Byte 0	-	-	-	-	I-4	I-3	I-2	I-1
M12 Output								
Byte 0	-	-	-	-	0-4	0-3	0-2	0-1

Diagnostic Indication

LED	Indication	Condition
0-1..4 / 0-4..4	yellow	channel status
AS-i	green	AS-Interface power supply active
AUX	green	actuator supply active
DIA	red	communication error
	red flashing	periphery error (actuator short circuit/sensor supply error)

Pin Assignments

Bus connection M12	Input 1 M12	Input 2 M12	Input 3 M12	Input 4 M12
1 = AS-Interface + 2 = 0 V AUX 3 = AS-Interface - 4 = +24 V AUX 5 = earth	1 = +24 V 2 = IN 2 3 = GND (0 V) 4 = IN 1 5 = earth	1 = +24 V 2 = n.c. 3 = GND (0 V) 4 = IN 2 5 = earth	1 = +24 V 2 = n.c. 3 = GND (0 V) 4 = IN 3 5 = earth	1 = +24 V 2 = n.c. 3 = GND (0 V) 4 = IN 4 5 = earth

Output 1 M12	Output 2 M12	Output 3 M12	Output 4 M12
1 = n.c. 2 = n.c. 3 = GND (0 V) 4 = OUT 1 5 = earth	1 = n.c. 2 = n.c. 3 = GND (0 V) 4 = OUT 2 5 = earth	1 = n.c. 2 = n.c. 3 = GND (0 V) 4 = OUT 3 5 = earth	1 = n.c. 2 = n.c. 3 = GND (0 V) 4 = OUT 4 5 = earth

The connection to earth for the outputs is implemented via the earthing contacts at the fastening holes.

AS-Interface Module with 4-Digital Inputs and 4-Digital Outputs
0910 ASL 425

Technical Data

Environmental
Degree of protection	IP 69K
Operating temperature range	-25°C (-13°F) to +80°C (+176°F)
Weight	550 g
Housing material	stainless steel

Bus system — **AS-Interface Version 2.1**
AS-Interface profile	S 7.A.E
I/O configuration	7 hex
ID code	E hex
ID2 code (extended ID-code)	F hex
Support A/B addressing	no

Electronics power supply — **AS-Interface**
Rated voltage	AS-Interface net
Voltage range	26.5–31.6 V DC
Power consumption	max. 250 mA
Reverse polarity protection	yes
Indication	LED green

Input power supply
Voltage range (AS-Interface net)	17–30 V
Total current of all sensors	max. 200 mA
Short circuit-proof	yes

Inputs — **Type 2 acc. to IEC 61131-2**
Rated input voltage	24 V DC
Signal state "1"	$U_s > 10$ V / $I_s > 4.7$ mA
Signal state "0"	$I_s < 1.5$ mA
Input current at 24 V	15 mA
Input circuit	p-switching
Number of digital channels	4
Channel status indicator	LED yellow per channel

Output power supply — **AUX**
Rated voltage	24 V DC
Voltage range	10–30 V
Potential separation	present
Reverse polarity protection	yes/electronic
Indication	LED green

Outputs — **Type 2 A acc. to IEC 61131-2**
Rated output current	2 A per channel
Short circuit-proof	yes
Max. output current	4 A per module
Overload-proof	yes
Number of digital channels	4
Channel type N.O.	p-switching
Channel status indicator	LED yellow per channel

Diagnostic
Indication	LED red

Included in delivery / Accessories
Dust covers M12	4 pieces

Part Number

0910 ASL 425

Mouser Electronics

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