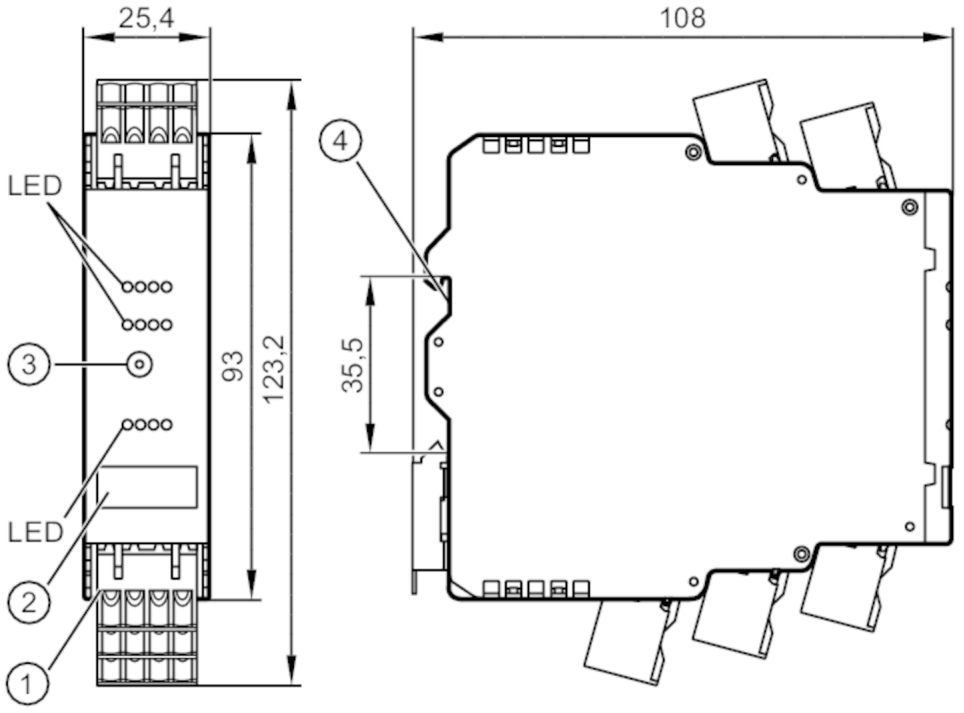
AC3221

AS-Interface control cabinet module

SmartL25 4DI AUX 4DO R C



1 plug with cage clamp connection
2 panel for labelling
3 addressing socket
4 mounting on DIN rail

Application		
Design		only for operation with AS-i masters with the profile M4
Application		Installation in control cabinets
Electrical data		
Operating voltage	[V]	18...31.6 DC
Max. current consumption from AS-i	[mA]	30
Additional voltage supply	[V]	20...30 DC; (AUX)
Max. current consumption from additional supply	[mA]	1100; (AUX)
Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital inputs: 4; Number of relay outputs: 4
Inputs		
Number of digital inputs		4
Input circuit of digital inputs		PNP; (type 2 according to IEC 61131-2)
Sensor supply of the inputs		AUX
Power supply	[V]	18...30; (DC AUX)
Max. total current rating of inputs	[mA]	1000
Input current High	[mA]	6...10

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Input current Low	[mA]	0...2
Switching level high	[V]	> 11
Digital inputs protected against short circuits		yes

Outputs

Voltage range DC	[V]	24; (AUX; The outputs O1 + O3 and O2 + O4 must be supplied in pairs with the same voltage. 2 x 24 V DC)
Voltage range AC	[V]	10...240; (The outputs O1 + O3 and O2 + O4 must be supplied in pairs with the same voltage. 2 x 240 V AC)
Max. current load per output	[mA]	6000; (ohmic resistance)
Max. current load outputs total	[A]	6; (ohmic resistance)
Number of relay outputs		4
Short-circuit proof		no
Electrically separated		yes

Operating conditions

Ambient temperature	[°C]	-25...65
Note on ambient temperature		the derating of the current load indicated in the operating instructions is to be taken into account at the following ambient temperature: > 55 °C
Storage temperature	[°C]	-25...75
Max. relative air humidity	[%]	90; (non condensing)
Max. height above sea level	[m]	2000
Protection		IP 20
Protection rating terminals		IP 20
Pollution degree		2

Tests / approvals

EMC		EN 62026-2
		EN 61000-6-2
		EN 61000-6-3
MTTF	[years]	248
Notes		The device shall be supplied from an isolating source.; This voltage source must have a secondary UL-listed fuse (see enclosed sheet).; Alternatively, a class 2 power supply can be used to supply AUX.

AS-i classification

AS-i version		3.0				
AS-i addressing		addressing socket				
Extended addressing mode		yes				
AS-i master profile		M4				
AS-i profile		S-7.A.7				
AS-i I/O configuration	[hex]	7				
AS-i ID code	[hex]	A.7				
AS-i ID1 code	[hex]	7; (fixed)				
AS-i certificate		124301				
Assignment of the data bits		data bit	D0	D1	D2	D3
		input	I-1	I-2	I-3	I-4
		Output	O-1	O-2	O-3	O-4

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Mechanical data			
Weight	[g]	203.35	
Housing		housing for DIN rail mounting	
Type of mounting		mounting on DIN rail	
Dimensions	[mm]	123.2 x 25.4 x 108	
Materials		plastics; PC-GF20	
Displays / operating elements			
Display		switching status	LED, yellow I1...I4, O1...O4
		operation	LED, green AS-i, AUX
		errors	LED, red
Accessories			
Items supplied		cage clamps	
Remarks			
Pack quantity		1 pcs.	

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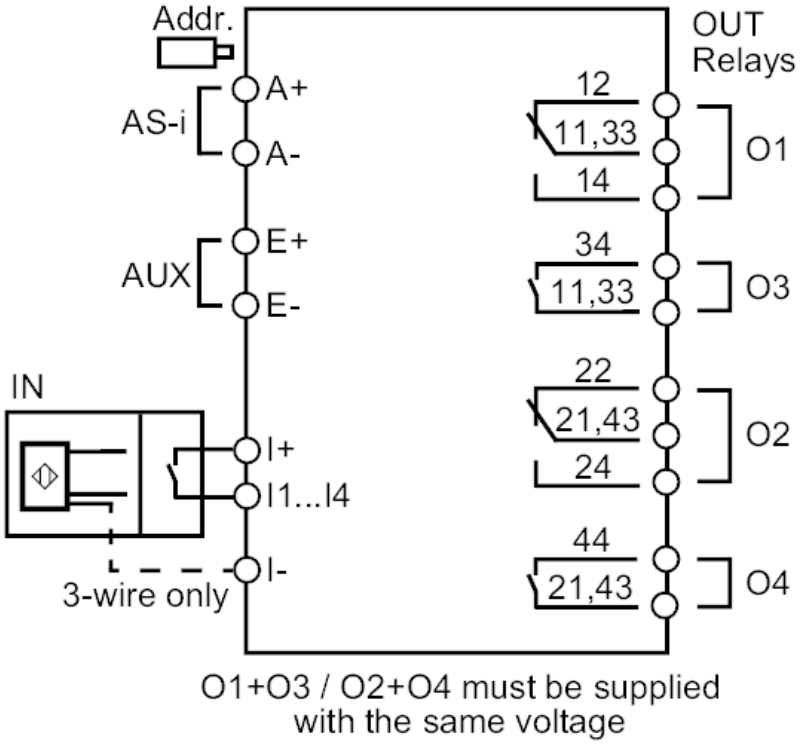
Electrical connection

pin headers: 4 x ; Spacing: 5.0 mm

Connection



A+	AS-i +
A-	AS-i -
E+	external voltage supply for sensors + 24 V (AUX)
E-	external voltage supply for sensors + 0 V (AUX)
I+	Sensor supply +24V
I-	Sensor supply 0V
I1...I4	switching input sensor 1...4
O1...O4	switching output relay 1...4
11	relay O1 changeover contact, common
12	relay O1 changeover contact, normally closed contact
14	relay O1 changeover contact, normally open
21	relay O2 changeover contact, common
22	relay O2 changeover contact, normally closed contact
24	relay O2 changeover contact, normally open
33, 34	relay O3 normally open
43, 44	relay O4 normally open