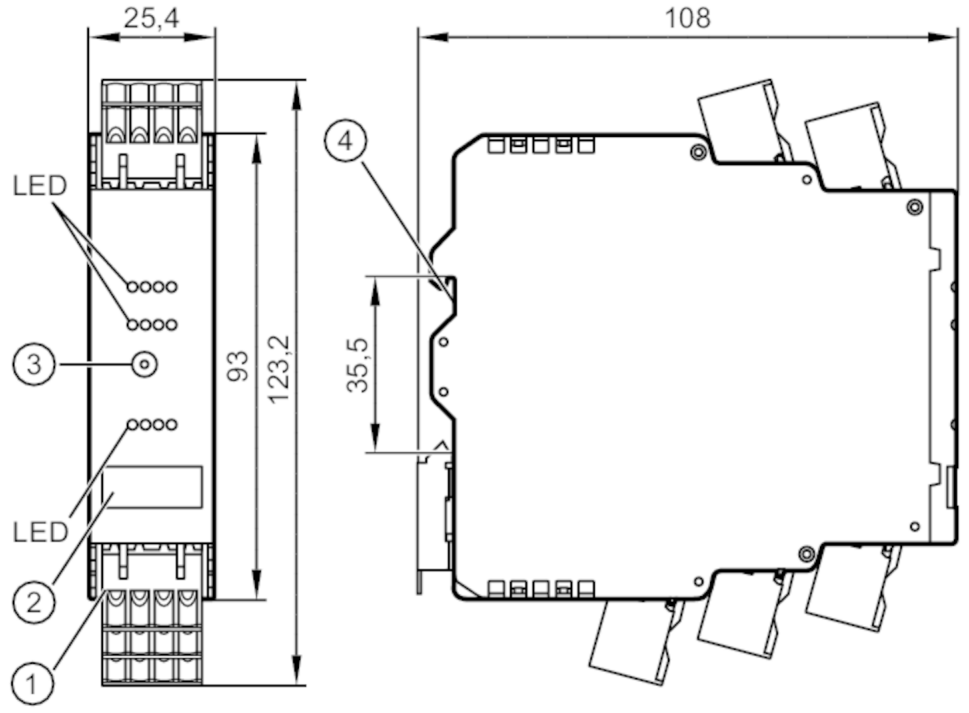
AC3220

AS-Interface control cabinet module

SmartL25 4DI 4DO R C



1 Plug with cage clamp connection
2 panel for labelling
3 Addressing socket
4 Mounting on DIN rail

Application		
Design		housing for DIN rail mounting, Only for operation with AS-i masters with the profile M4
Application		I/O modules for control cabinet installations
Electrical data		
Operating voltage	[V]	26.5...31.6 DC
Max. current consumption from AS-i	[mA]	300
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		AS-i
Voltage supply	[V]	18...30; (DC)
Max. total current rating of inputs	[mA]	200
Input current High	[mA]	6...10
Input current low	[mA]	0...2
Switching level high	[V]	> 11

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Digital inputs protected against short circuits		yes
Outputs		
Voltage range DC	[V]	24; (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; (resistive load)
Max. current load outputs total	[A]	24; (resistive load)
Overall current rating for outputs (UL)	[A]	6; (resistive load)
Number of relay outputs		4
Contact rating		6 A; (max. 240 V AC / 24 V DC see diagram:: Contact rating normally open (NO): B300: 6000 cycles)
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
Degree of soiling		2
Tests / approvals		
EMC		EN 62026-2 EN 61000-6-2 EN 61000-6-3
MTTF	[years]	295
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

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]	216.05	
Housing		rectangular	
Type of mounting		Mounting on DIN rail; (TH35 (EN 60715))	
Dimensions	[mm]	123.2 x 25.4 x 108	
Material		plastics; PC-GF20	
Displays / operating elements			
Display		Switching status	LED, yellow I1...I4, O1...O4
		Power	LED, green AS-i
		errors	LED, red
Accessories			
Items supplied		cage clamps	
Remarks			
Remarks		Do not connect any of the following points to an external potential:	
		I-, I+, I1, I2, I3, I4	
		The connections are electrically connected with the AS-i cable.	
Pack quantity		1 pcs.	

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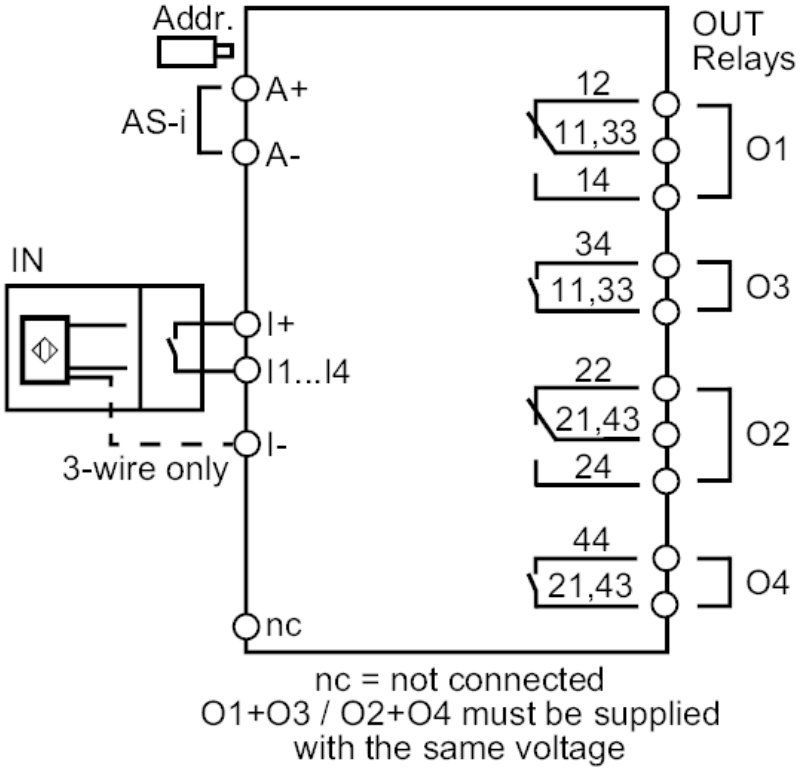
Electrical connection

pin headers: 4 x ; Spacing: 5.0 mm

Connection



A+	AS-i +
A-	AS-i -
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
14	Relay O1 Changeover contact, normally open
21	Relay O2 changeover contact, common
22	Relay O2 Changeover contact, normally closed
24	Relay O2 Changeover contact, normally open
33, 34	Relay O3 normally open
43, 44	Relay O4 normally open
nc	not used

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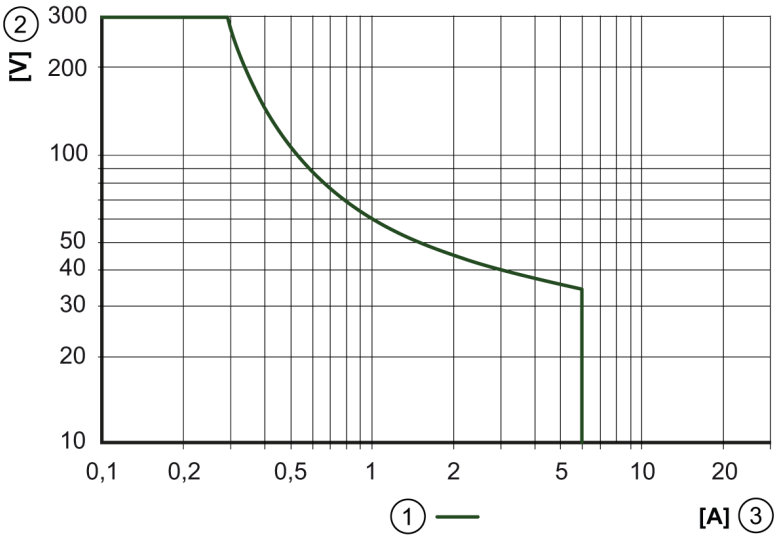
Diagrams and graphs

Contact rating



1 resistive load

2 Voltage [DC]

3 Current [DC]