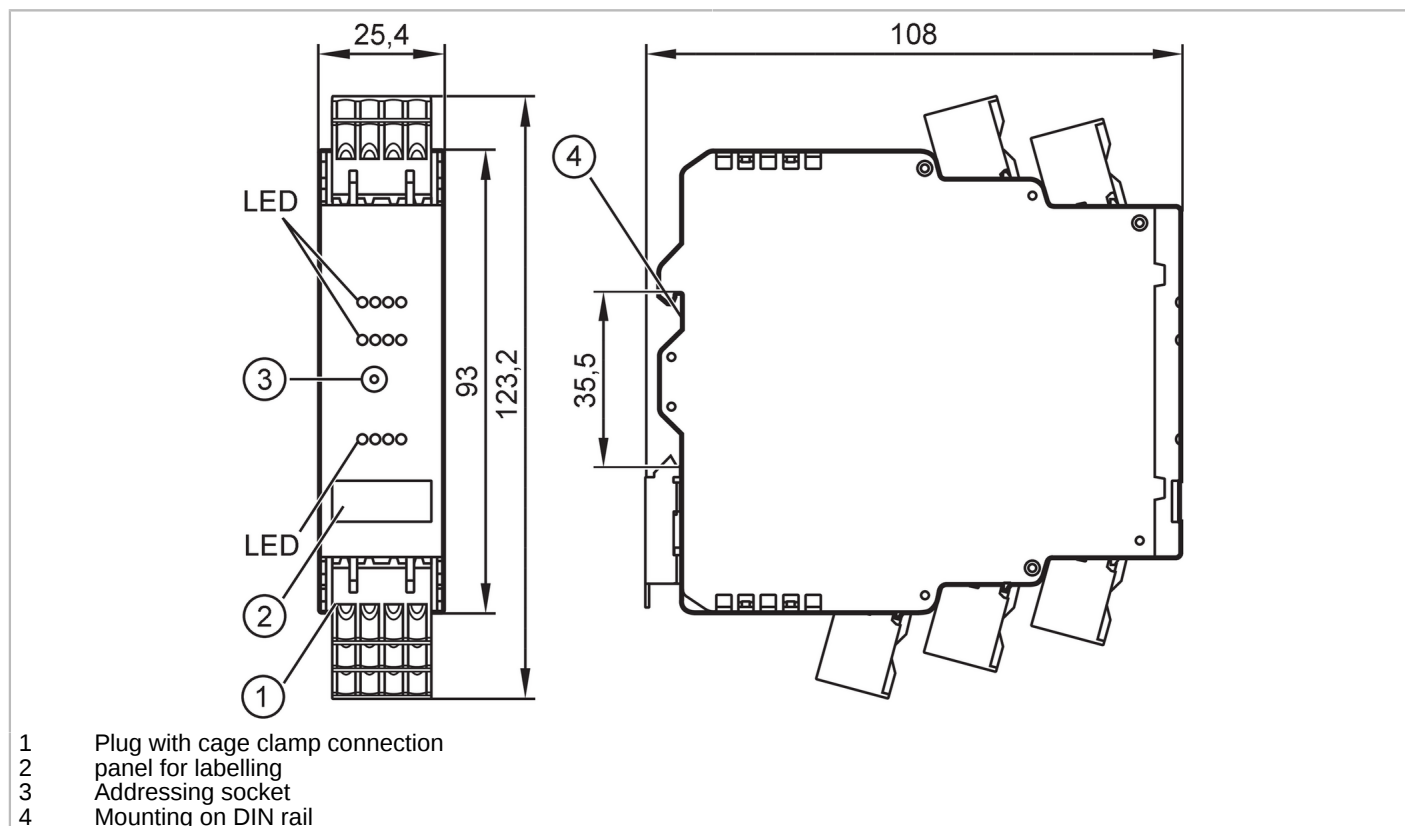


AS-Interface control cabinet module

SmartL25 4DI 4DO R C



Application

Design

housing for DIN rail mounting

Application

I/O modules for control cabinet installations

Electrical data

Operating voltage [V] 26.5...31.6 DC

Max. current consumption [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 200

Input current High [mA] 6...10

Input current low [mA] 0...2

Switching level high [V] > 11

Digital inputs protected against short circuits yes



AS-Interface control cabinet module

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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]	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				
Pollution degree		2				
Tests / approvals						
EMC		EN 62026-2				
		EN 61000-6-2				
		EN 61000-6-3				
MTTF	[years]	295				
AS-i classification						
AS-i version		2.11; 3.0				
AS-i addressing		Addressing socket				
Extended addressing mode		no				
AS-i master profile		M2; M3; M4				
AS-i profile		S-7.0.E				
AS-i I/O configuration	[hex]	7				
AS-i ID code	[hex]	0.E				
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
Mechanical data						
Weight	[g]	214.7				
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				



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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
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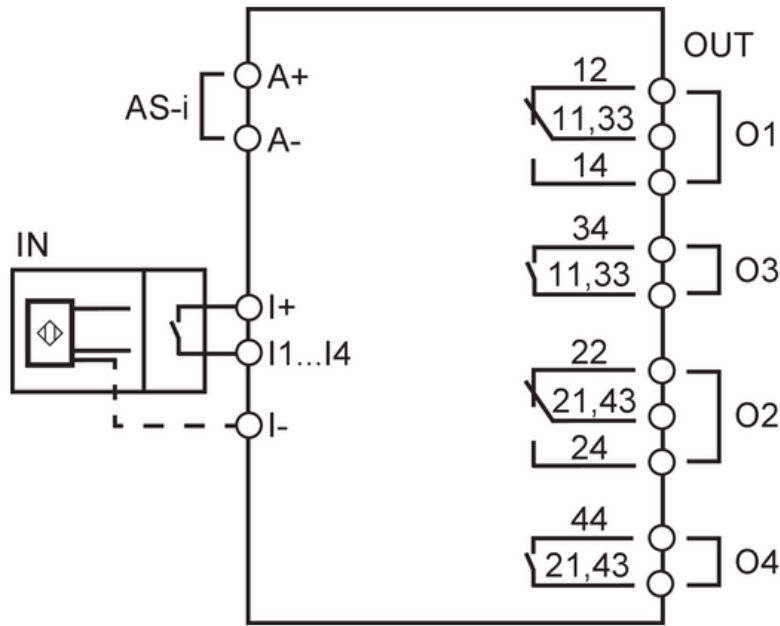
Remarks

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.

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

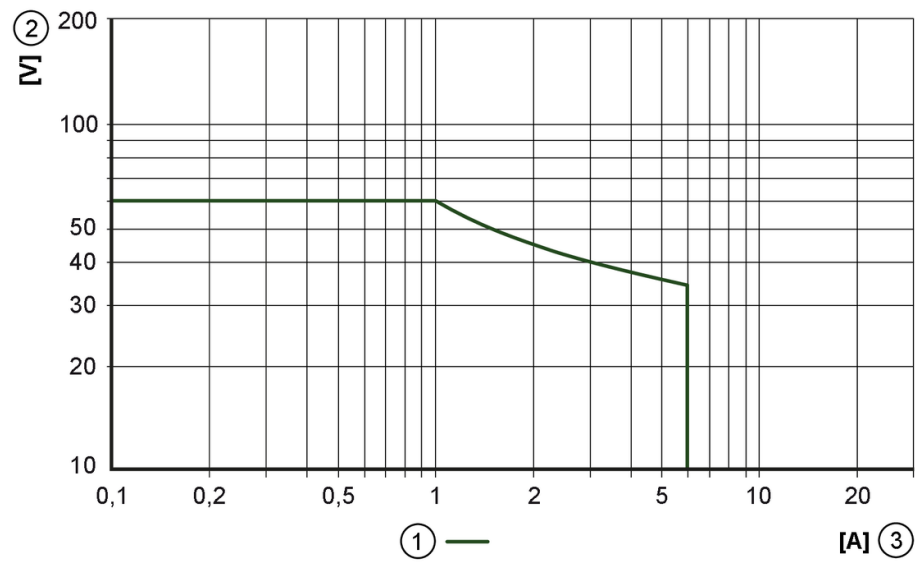


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Diagrams and graphs

Contact rating



- 1 resistive load
- 2 Voltage [DC]
- 3 Current [DC]