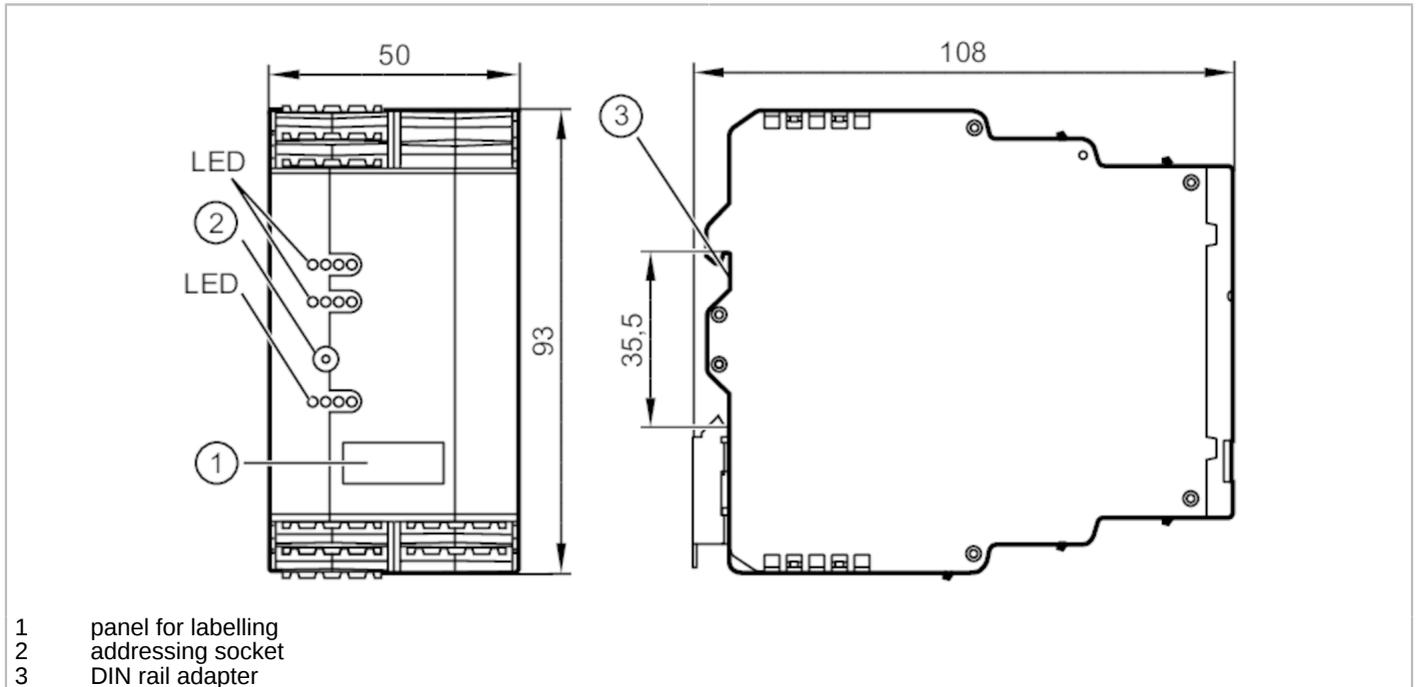


AC2259



AS-Interface control cabinet module

SmartL50 4DI 4DO R C



Application	
Application	Installation in control cabinets
Electrical data	
Operating voltage [V]	26.5...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]	20...30; (DC)
Max. total current rating of inputs [mA]	1000
Input current High [mA]	6...10
Input current Low [mA]	0...2
Switching level high [V]	> 11
Digital inputs protected against short circuits	yes
Outputs	
Voltage range DC [V]	24

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Voltage range AC	[V]	10...240
Max. current load per output	[mA]	6000; (ohmic resistance)
Number of relay outputs		4
Short-circuit proof		no
Electrically separated		yes

Operating conditions

Ambient temperature	[°C]	-25...60
Max. relative air humidity	[%]	90; (non condensing)
Max. height above sea level	[m]	2000
Protection		IP 20
Pollution degree		2

Tests / approvals

EMC		EN 61000-6-2
		EN 62026-2
		EN 50581
MTTF	[years]	297
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		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															
AS-i certificate pending		yes															
Assignment of the data bits		<table border="1"> <thead> <tr> <th>data bit</th> <th>D0</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td>input</td> <td>I-1</td> <td>I-2</td> <td>I-3</td> <td>I-4</td> </tr> <tr> <td>Output</td> <td>O-1</td> <td>O-2</td> <td>O-3</td> <td>O-4</td> </tr> </tbody> </table>	data bit	D0	D1	D2	D3	input	I-1	I-2	I-3	I-4	Output	O-1	O-2	O-3	O-4
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]	246
Housing		housing for DIN rail mounting
Type of mounting		mounting on DIN rail
Dimensions	[mm]	93 x 50 x 108
Materials		PC-GF20

Displays / operating elements

Display	switching status	LED, yellow I1...I4, O1...O4
	operation	LED, green AS-i, AUX
	errors	LED, red

Accessories

Accessories (optional)	connectors
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Remarks

Pack quantity	1 pcs.
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Electrical connection

pin header:

Connection

I-	I-	I-	I-
I1	I2	I3	I4
I+	I+	I+	I+

14	11	11	12
24	21	21	22
A+	A-	E+	E-

34	31	31	32
44	41	41	42

A+	AS-i +
A-	AS-i -
E+	external sensor supply +24V
E-	external sensor supply 0V
I+	Sensor supply +24V
I-	Sensor supply 0V
I1...4	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
31	relay O3 centre contact
32	relay O3 normally closed
34	relay O3 normally open
41	relay O4 centre contact
42	relay O4 normally closed
44	relay O4 normally open