AC2255
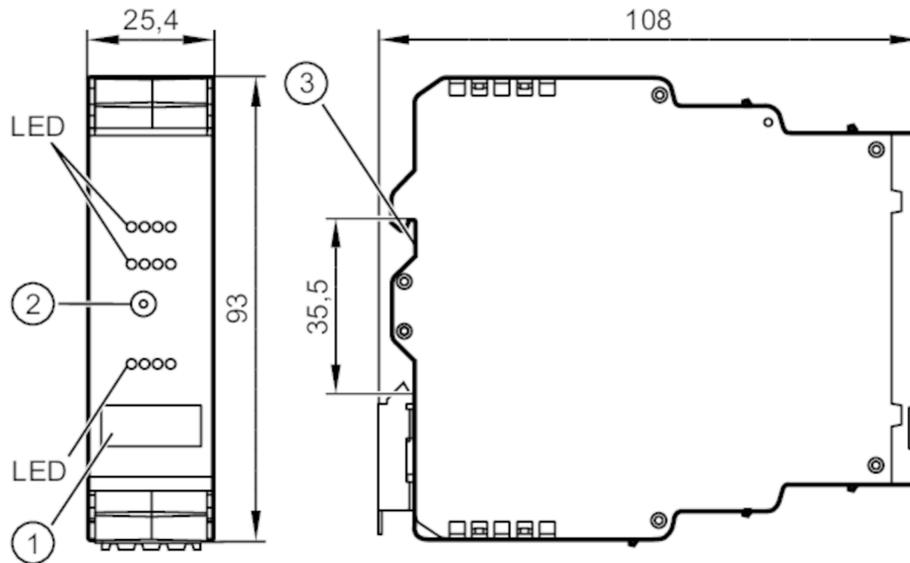
AS-Interface control cabinet module

SmartL25 4DI 2DO R C

1   panel for labelling
2   addressing socket
3   DIN rail adapter

Application	
Application	Installation in control cabinets
Electrical data	
Operating voltage [V]	26.5...31.6 DC
Max. current consumption [mA] from AS-i	50
Additional voltage supply [V]	20...30 DC; (AUX)
Max. current consumption [mA] from additional supply	600; (AUX)
Integrated watchdog	yes
Inputs / outputs	
Number of inputs and outputs	Number of digital inputs: 4; Number of relay outputs: 2
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)
Max. total current rating of [mA] inputs	500
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
Voltage range AC	[V]	10...240
Max. current load per output	[mA]	6000; (240 V AC; 24 V DC; ohmic resistance)
Number of relay outputs		2
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]	383
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		yes		
AS-i master profile		M2; M3; M4		
AS-i profile		S-7.A.E		
AS-i I/O configuration	[hex]	7		
AS-i ID code	[hex]	A.E		
AS-i certificate pending		yes		
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	-	-

Mechanical data		
Weight	[g]	171
Housing		housing for DIN rail mounting
Type of mounting		mounting on DIN rail
Dimensions	[mm]	93 x 25.4 x 108
Materials		PC-GF20

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Displays / operating elements		
Display	switching status	LED, yellow I1...I4, O1....O2
	operation	LED, green AS-i, AUX
	errors	LED, red

Accessories	
Accessories (optional)	connectors

Remarks	
Pack quantity	1 pcs.

Electrical connection
pin header:

Connection

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

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

A+	AS-i +
A-	AS-i -
I+	Sensor supply +24V
I-	Sensor supply 0V
E+	external voltage supply for sensors + 24 V (AUX)
E-	external voltage supply for sensors + 0 V (AUX)
I1...I4	switching input sensor 1...4
O1...O2	switching output relay 1...2
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