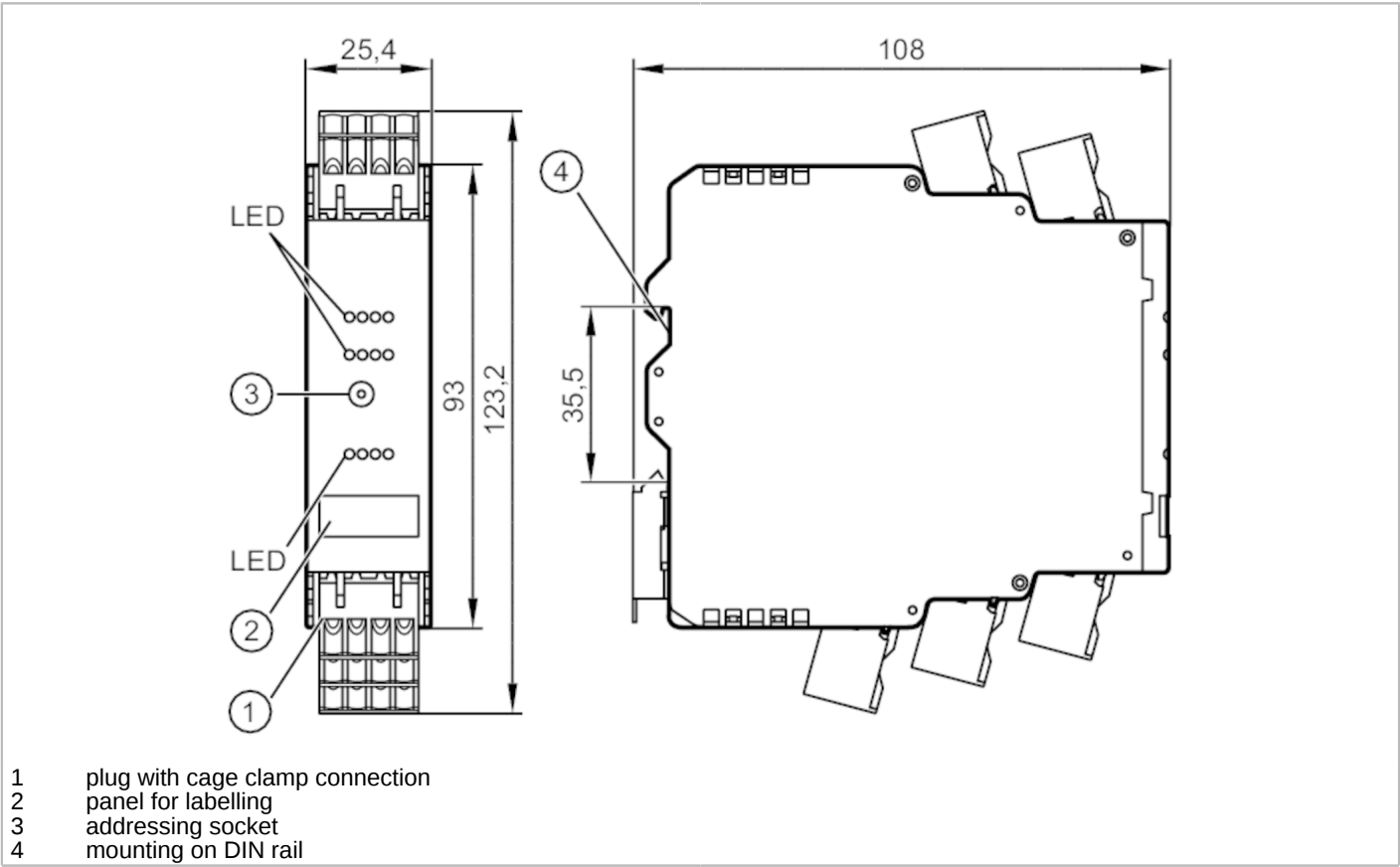




AS-Interface control cabinet module

SmartL25 4DI AUX 4DO R C



| Application                                          |                                                                                         |
|------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Design                                               | housing for DIN rail mounting, 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  |
|                             |       | input             | I-1 | I-2 |
|                             |       | Output            | O-1 | O-2 |
|                             |       |                   | D2  | D3  |
|                             |       |                   | I-3 | I-4 |
|                             |       |                   | O-3 | O-4 |

# AC3221



## AS-Interface control cabinet module

SmartL25 4DI AUX 4DO R C

| Mechanical data               |                  |                                         |
|-------------------------------|------------------|-----------------------------------------|
| Weight                        | [g]              | 203.35                                  |
| Housing                       |                  | rectangular                             |
| Type of mounting              |                  | mounting on DIN rail; (TH35 (EN 60715)) |
| 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.                                  |

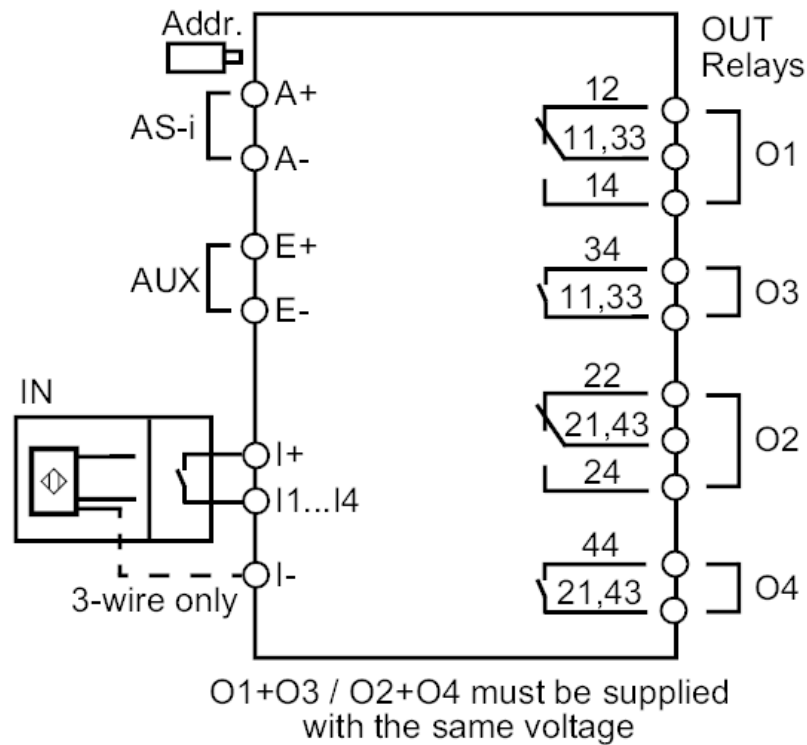
## AS-Interface control cabinet module

SmartL25 4DI AUX 4DO R C

### 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                               |