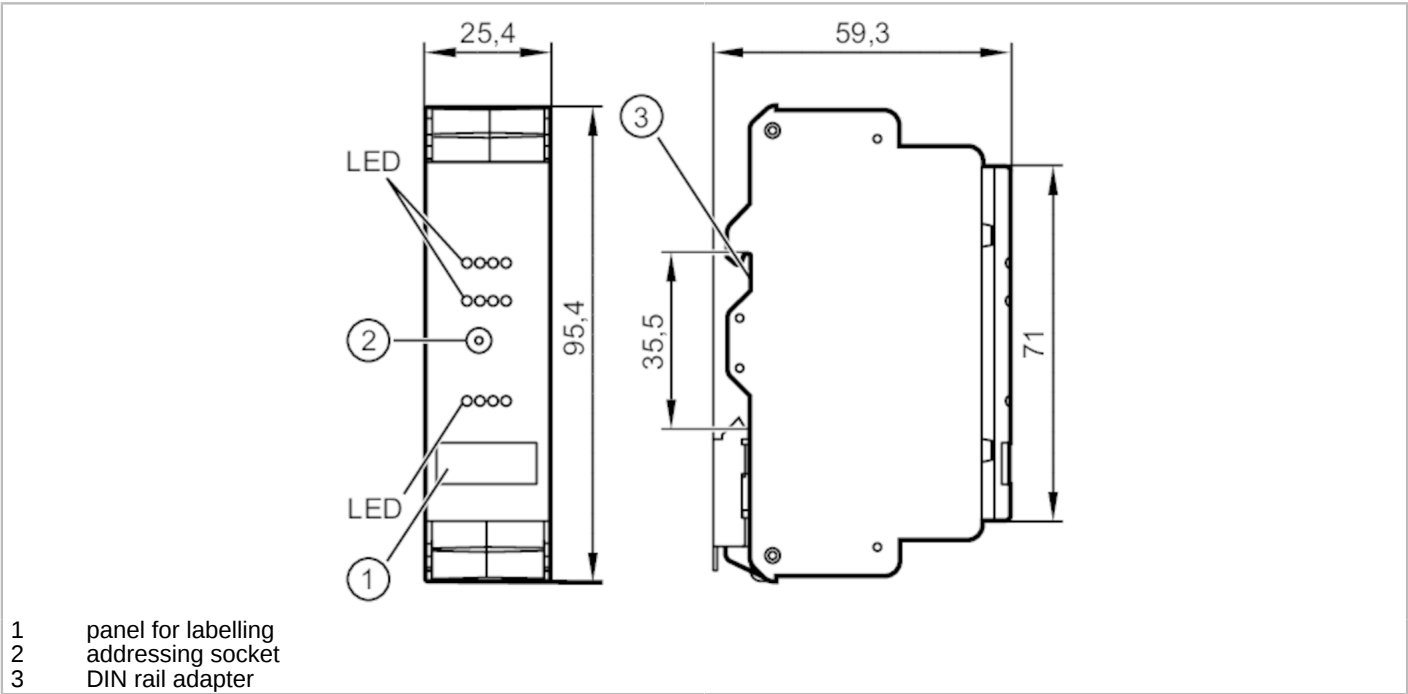




AS-Interface control cabinet module

SmartL25 4DI 4DO C



| Application                                     |      |                                                           |
|-------------------------------------------------|------|-----------------------------------------------------------|
| Design                                          |      | 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] | 250                                                       |
| Additional voltage supply                       | [V]  | 20...30 DC; (AUX)                                         |
| Max. current consumption from additional supply | [mA] | 4000; (AUX)                                               |
| Integrated watchdog                             |      | yes                                                       |
| Inputs / outputs                                |      |                                                           |
| Number of inputs and outputs                    |      | Number of digital inputs: 4; Number of digital 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                                                      |
| Power 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                                                      |
| Digital inputs protected against short circuits |      | yes                                                       |



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| Outputs                             |                                                                                                                                                                                                          |     |     |     |     |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Number of digital outputs           | 4                                                                                                                                                                                                        |     |     |     |     |
| Circuit                             | PNP                                                                                                                                                                                                      |     |     |     |     |
| Voltage range DC [V]                | 20...30; (AUX)                                                                                                                                                                                           |     |     |     |     |
| Max. current load per output [mA]   | 1000; (utilisation category DC-12: 700 mA; utilisation category DC-13 (control of electromagnets): 20 W (IEC 60947-5-1))                                                                                 |     |     |     |     |
| Max. current load outputs total [A] | 4                                                                                                                                                                                                        |     |     |     |     |
| Short-circuit proof                 | yes                                                                                                                                                                                                      |     |     |     |     |
| Electrically separated              | yes                                                                                                                                                                                                      |     |     |     |     |
| Actuator supply outputs             | AUX                                                                                                                                                                                                      |     |     |     |     |
| Operating conditions                |                                                                                                                                                                                                          |     |     |     |     |
| Ambient temperature [°C]            | -25...60                                                                                                                                                                                                 |     |     |     |     |
| 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: > 40 °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                                                                                                                                                                                             |     |     |     |     |
| 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                    | 124401                                                                                                                                                                                                   |     |     |     |     |
| 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 | O-3 | O-4 |
| Mechanical data                     |                                                                                                                                                                                                          |     |     |     |     |
| Weight [g]                          | 107.1                                                                                                                                                                                                    |     |     |     |     |
| Housing                             | housing for DIN rail mounting                                                                                                                                                                            |     |     |     |     |
| Type of mounting                    | mounting on DIN rail; (TH35 (EN 60715))                                                                                                                                                                  |     |     |     |     |



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|            |      |                    |
|------------|------|--------------------|
| Dimensions | [mm] | 95.4 x 25.4 x 59.3 |
| 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

|                        |            |
|------------------------|------------|
| Accessories (optional) | connectors |
|------------------------|------------|

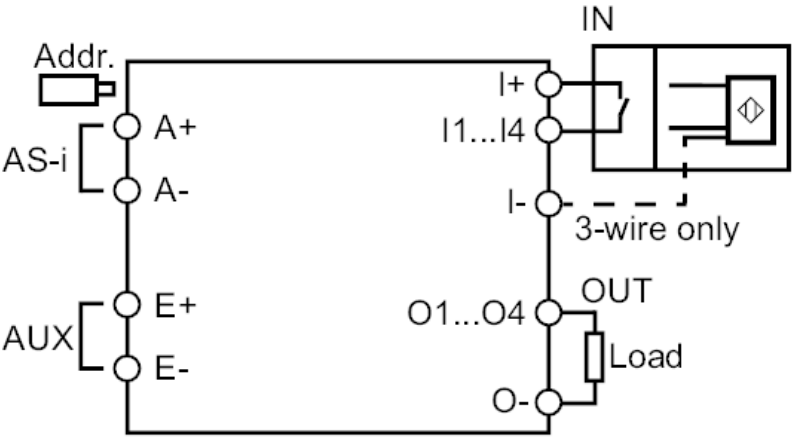
Remarks

|               |                                                                      |
|---------------|----------------------------------------------------------------------|
| 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                                 |
| E+      | external voltage supply for actuators +24V (AUX) |
| E-      | external voltage supply for actuators 0V (AUX)   |
| I1...I4 | switching input sensor 1...4                     |
| O1...O4 | switching output actuator 1...4                  |
| O-      | switching output actuator 0V                     |