

## AS-Interface control cabinet module

SmartL25 4DI C



- 1 panel for labelling  
2 addressing socket  
3 DIN rail adapter



## Application

|             |                                  |
|-------------|----------------------------------|
| Design      | housing for DIN rail mounting    |
| Application | Installation in control cabinets |

## Electrical data

|                                                 |      |                   |
|-------------------------------------------------|------|-------------------|
| Operating voltage                               | [V]  | 26.5...31.6 DC    |
| Max. current consumption from AS-i              | [mA] | 50                |
| Additional voltage supply                       | [V]  | 20...30 DC; (AUX) |
| Max. current consumption from additional supply | [mA] | 600; (AUX)        |

## Inputs / outputs

|                              |                             |
|------------------------------|-----------------------------|
| Number of inputs and outputs | Number of digital inputs: 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)                          |
| Max. total current rating of inputs [mA] | 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                                                                                                                                                                                                      |     |     |     |
| Operating conditions                            |                  |                                                                                                                                                                                                          |     |     |     |
| Ambient temperature                             | [°C]             | -25...70                                                                                                                                                                                                 |     |     |     |
| 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]          | 485                                                                                                                                                                                                      |     |     |     |
| 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-0.A.E                                                                                                                                                                                                  |     |     |     |
| AS-i I/O configuration                          | [hex]            | 0                                                                                                                                                                                                        |     |     |     |
| AS-i ID code                                    | [hex]            | A.E                                                                                                                                                                                                      |     |     |     |
| AS-i certificate                                |                  | 39402                                                                                                                                                                                                    |     |     |     |
| Assignment of the data bits                     | data bit         | D0                                                                                                                                                                                                       | D1  | D2  | D3  |
|                                                 | input            | I-1                                                                                                                                                                                                      | I-2 | I-3 | I-4 |
| Mechanical data                                 |                  |                                                                                                                                                                                                          |     |     |     |
| Weight                                          | [g]              | 128.9                                                                                                                                                                                                    |     |     |     |
| Housing                                         |                  | rectangular                                                                                                                                                                                              |     |     |     |
| Type of mounting                                |                  | mounting on DIN rail; (TH35 (EN 60715))                                                                                                                                                                  |     |     |     |
| Dimensions                                      | [mm]             | 93 x 25.4 x 108                                                                                                                                                                                          |     |     |     |
| Materials                                       |                  | PC-GF20                                                                                                                                                                                                  |     |     |     |
| Displays / operating elements                   |                  |                                                                                                                                                                                                          |     |     |     |
| Display                                         | switching status | LED, yellow I1...I4                                                                                                                                                                                      |     |     |     |
|                                                 | operation        | LED, green AS-i, AUX                                                                                                                                                                                     |     |     |     |
|                                                 | errors           | LED, red                                                                                                                                                                                                 |     |     |     |
| Accessories                                     |                  |                                                                                                                                                                                                          |     |     |     |
| Accessories (optional)                          |                  | connectors                                                                                                                                                                                               |     |     |     |
| Remarks                                         |                  |                                                                                                                                                                                                          |     |     |     |
| Pack quantity                                   |                  | 1 pcs.                                                                                                                                                                                                   |     |     |     |



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Electrical connection

pin header:

Connection

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

|    |    |  |  |
|----|----|--|--|
|    |    |  |  |
|    |    |  |  |
| A+ | A- |  |  |

|         |                              |
|---------|------------------------------|
| A+      | AS-i +                       |
| A-      | AS-i -                       |
| I+      | Sensor supply +24V           |
| I-      | Sensor supply 0V             |
| E+      | external sensor supply +24V  |
| E-      | external sensor supply 0V    |
| I1...I4 | switching input sensor 1...4 |