

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

## 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 |
| Type of mounting | mounting on DIN rail |     |
| Materials        | PC-GF20              |     |

## Displays / operating elements

|         |                  |                               |
|---------|------------------|-------------------------------|
| Display | switching status | LED, yellow I1...I4, O1....O2 |
|         | operation        | LED, green AS-i, AUX          |
|         | errors           | LED, red                      |



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| 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           |