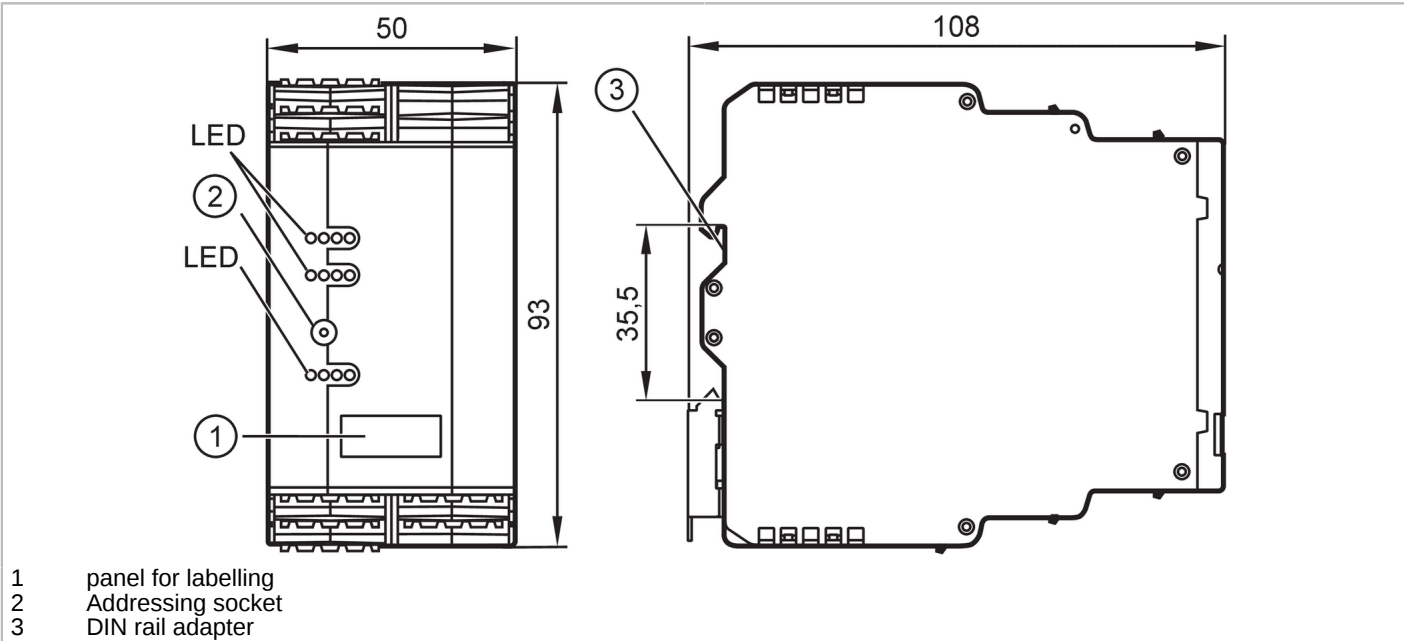


# AC2258



## AS-Interface control cabinet module

SmartL50 4DI 4DO R C



### Application

|             |                                               |
|-------------|-----------------------------------------------|
| Design      | housing for DIN rail mounting                 |
| Application | I/O modules for control cabinet installations |

### Electrical data

|                                    |      |                |
|------------------------------------|------|----------------|
| Operating voltage                  | [V]  | 26.5...31.6 DC |
| Max. current consumption from AS-i | [mA] | 300            |
| 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                     |      | AS-i                                   |
| Voltage 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                                    |

### Outputs

|                              |      |                        |
|------------------------------|------|------------------------|
| Voltage range DC             | [V]  | 24                     |
| Voltage range AC             | [V]  | 10...240               |
| Max. current load per output | [mA] | 6000; (resistive load) |



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|                                     |                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Max. current load outputs total [A] | 6; (240 V AC; 24 V DC; resistive load)                                                            |
| Number of relay outputs             | 4                                                                                                 |
| Contact rating                      | 6 A; (max. 240 V AC / 24 V DC see diagram:: Contact rating normally open (NO): B300: 6000 cycles) |
| 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] | 279          |  |

## AS-i classification

|                              |                   |     |     |     |     |
|------------------------------|-------------------|-----|-----|-----|-----|
| AS-i version                 | 2.11; 3.0         |     |     |     |     |
| AS-i addressing              | Addressing socket |     |     |     |     |
| Extended addressing mode     | no                |     |     |     |     |
| AS-i profile                 | S-7.0.E           |     |     |     |     |
| AS-i I/O configuration [hex] | 7                 |     |     |     |     |
| AS-i ID code [hex]           | 0.E               |     |     |     |     |
| AS-i certificate pending     | yes               |     |     |     |     |
| 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]       | 275.7                                   |
| Housing          | rectangular                             |
| Type of mounting | Mounting on DIN rail; (TH35 (EN 60715)) |
| Dimensions [mm]  | 93 x 50 x 108                           |
| Material         | PC-GF20                                 |

## Displays / operating elements

|         |                  |                              |
|---------|------------------|------------------------------|
| Display | Switching status | LED, yellow I1...I4, O1...O4 |
|         | Power            | LED, green AS-i              |
|         | errors           | LED, red                     |

## Accessories

|                        |           |
|------------------------|-----------|
| Accessories (optional) | connector |
|------------------------|-----------|

## Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|



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Electrical connection

pin header:

Connection

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

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

|    |    |    |    |
|----|----|----|----|
| 34 | 31 | 31 | 32 |
| 44 | 41 | 41 | 42 |

|         |                                              |
|---------|----------------------------------------------|
| A+      | AS-i +                                       |
| A-      | AS-i -                                       |
| 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 |
| 14      | Relay O1 Changeover contact, normally open   |
| 21      | Relay O2 changeover contact, common          |
| 22      | Relay O2 Changeover contact, normally closed |
| 24      | Relay O2 Changeover contact, normally open   |
| 31      | Relay O3 center contact                      |
| 32      | Relay O3 normally closed                     |
| 34      | Relay O3 normally open                       |
| 41      | Relay O4 center contact                      |
| 42      | Relay O4 normally closed                     |
| 44      | Relay O4 normally open                       |

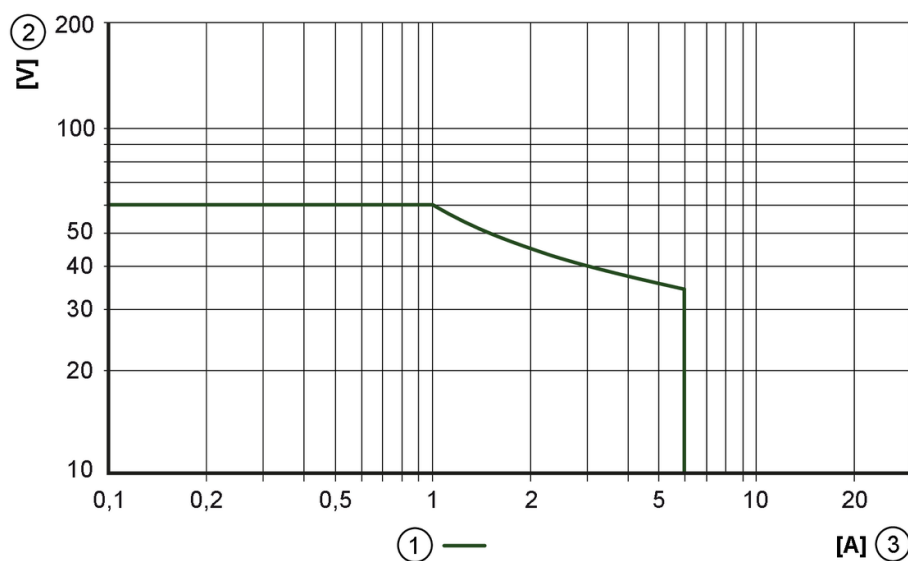


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## Diagrams and graphs

## Contact rating



- 1 resistive load
- 2 Voltage [DC]
- 3 Current [DC]