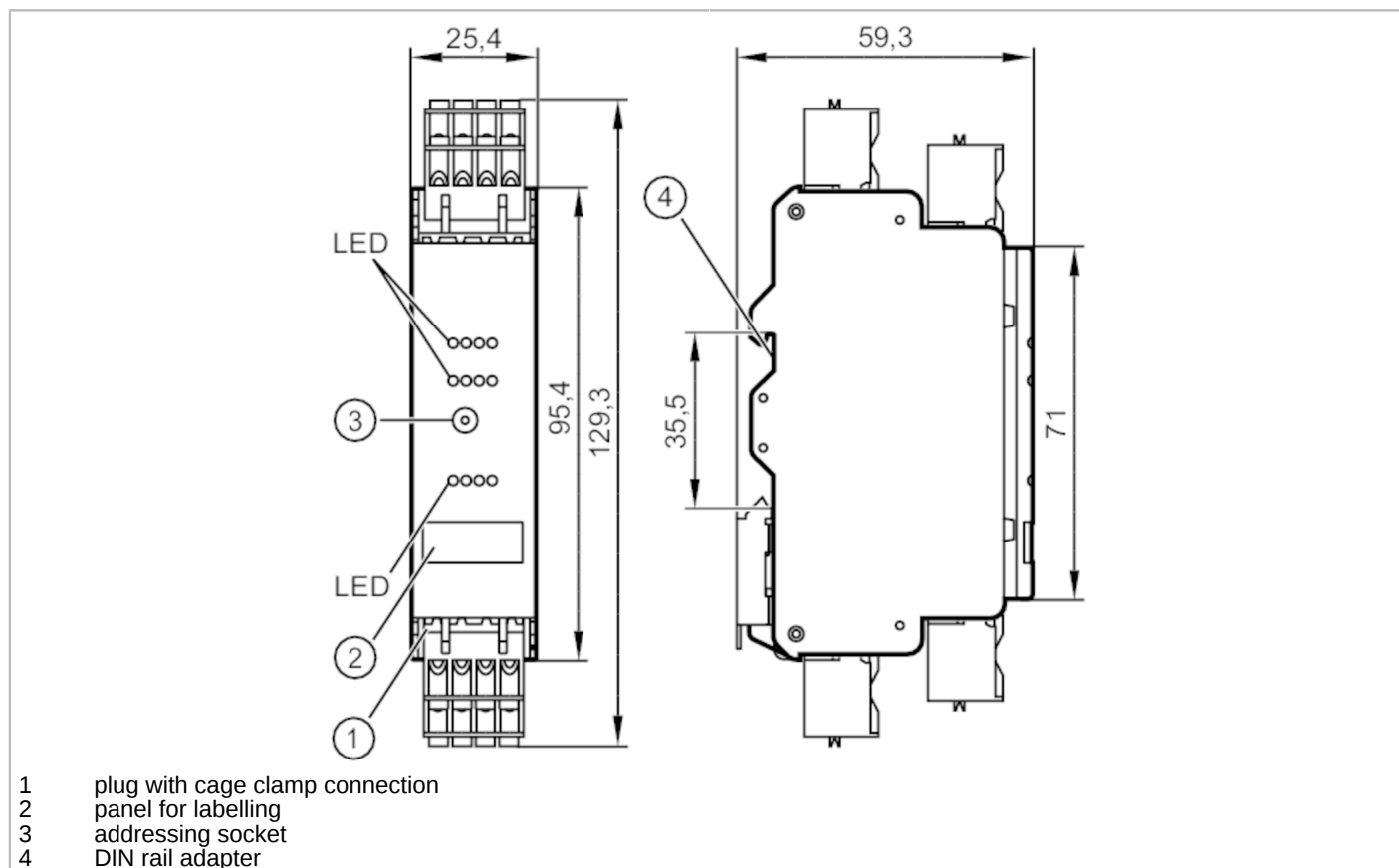


## AS-Interface control cabinet module

SmartL25 4DI 4DO T C



## Application

|             |                                  |
|-------------|----------------------------------|
| Design      | housing for DIN rail mounting    |
| 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                                 |



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|                                                 |      |       |
|-------------------------------------------------|------|-------|
| Input current Low                               | [mA] | 0...2 |
| Switching level high                            | [V]  | > 11  |
| Digital inputs protected against short circuits |      | yes   |

## 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                                                                                                                                                                                             |  |
| MTTF  | [years] | 262                                                                                                                                                                                                      |  |
| 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    | no                |     |     |     |     |
| AS-i master profile         | M2; M3; M4        |     |     |     |     |
| AS-i profile                | S-7.0.E           |     |     |     |     |
| AS-i I/O configuration      | [hex]             | 7   |     |     |     |
| AS-i ID code                | [hex]             | 0.E |     |     |     |
| 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] | 131.9 |
|--------|-----|-------|



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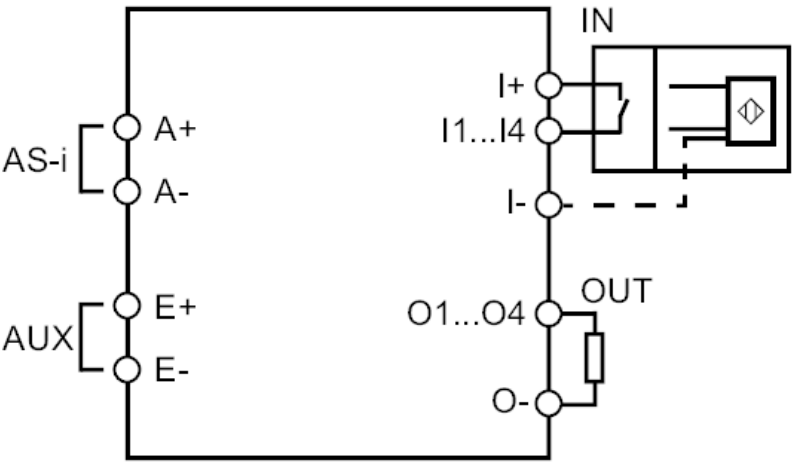
|                  |                                         |
|------------------|-----------------------------------------|
| Housing          | rectangular                             |
| Type of mounting | mounting on DIN rail; (TH35 (EN 60715)) |
| Dimensions [mm]  | 129.3 x 25.4 x 59.3                     |
| 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    |             |
|----------------|-------------|
| Items supplied | cage clamps |

| 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                     |