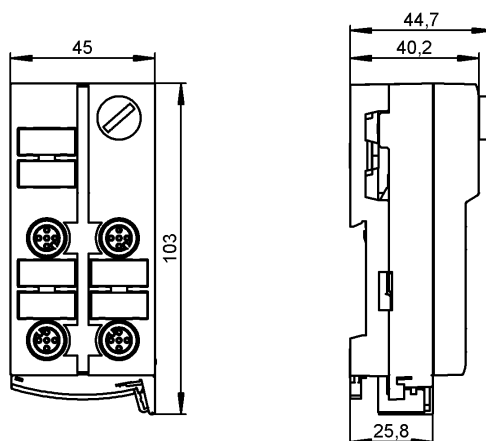


## AC506S

ClassicLine 4SI 2DO T 2LO

Bus system AS-Interface



Made in Germany

### Product characteristics

AS-i Safety at Work

AS-i flat cable connection

Sockets M12 x 1

Safe AS-i input module 4SI / 2DO T / 2LO

Addressing socket

Three orientations of the flat cable are possible

Complies with the requirements:

EN ISO 13849-1: PL d

IEC 62061: SILcl 2

### Electrical data

|                              |      |                                                               |
|------------------------------|------|---------------------------------------------------------------|
| Electrical design            |      | 2x2 safe inputs / 2 non-safe LED outputs / 2 non-safe outputs |
| Operating voltage            | [V]  | 26.5...31.6 DC; "supply class 2" to cULus.                    |
| Current consumption          | [mA] | < 280                                                         |
| Max. current load per module | [mA] | 200                                                           |

### Inputs

|                                        |      |        |
|----------------------------------------|------|--------|
| Digital                                |      |        |
| Circuit                                |      | DC PNP |
| Sensor supply                          |      | AS-i   |
| Max. current load for all inputs total | [mA] | 200    |
| Input current [mA]                     |      | 8      |
| Short-circuit detection                |      | yes    |
| Cross-bridging detection               |      | no     |
| Short-circuit proof                    |      | yes    |

### Outputs

|                              |      |                    |
|------------------------------|------|--------------------|
| Voltage range                | [V]  | 24 DC (18...30 DC) |
| LED output                   |      | 2                  |
| LED output / supply via AS-i |      | ja                 |
| External voltage supply      |      | AS-i               |
| Signal outputs               |      | 2                  |
| Max. current load per output | [mA] | 50                 |

## AC506S

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Bus system AS-Interface

|                        |     |
|------------------------|-----|
| Electrically separated | no  |
| Integrated watchdog    | yes |
| Short-circuit proof    | yes |

| Environment              |                                             |
|--------------------------|---------------------------------------------|
| Ambient temperature [°C] | -25...55, -25...40 °C with switched outputs |
| Protection               | IP 67                                       |

| Tests / approvals |                                 |
|-------------------|---------------------------------|
| EMC               | EN 50295<br>EN 62061<br>annex E |

| Safety classification                 |                    |
|---------------------------------------|--------------------|
| Mission time TM [h]                   | 175200, (20 years) |
| Safety-related reliability PFHd [1/h] | 4.7 E-12           |
| PFH                                   | 2.4 x 10E-11 / h   |
| MTTFd [Years]                         | 5400               |
| DC/CCF/Cat.                           | 97/-/3             |

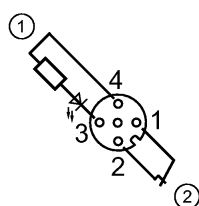
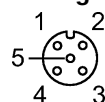
| AS-i classification                      |                           |
|------------------------------------------|---------------------------|
| Extended addressing mode possible        | version 2.11 and 3.0 / no |
| Max. number of safety modules per master | 31                        |
| AS-i profile                             | S-7.B.E                   |
| I/O configuration [hex]                  | 7                         |
| ID code [Hex]                            | B.E                       |
| AS-i certificate                         | 97201                     |

| Mechanical data                                     |                                                            |
|-----------------------------------------------------|------------------------------------------------------------|
| Cable length between module and mechanical contacts | < 10 m                                                     |
| Housing materials                                   | PA; Piercing contacts: CuSn6 surface nickel and tin-plated |
| Weight [kg]                                         | 0.204                                                      |

| Displays / operating elements |        |
|-------------------------------|--------|
| Operation LED                 | green  |
| Error LED                     | Red    |
| Function display LED          | yellow |

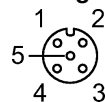
| Electrical connection |      |
|-----------------------|------|
| Max. cable length [m] | < 10 |

### Wiring



1 signalling  
2 safety contact (NC)

### Wiring



|        |           |            |
|--------|-----------|------------|
|        | Socket 1A | Socket 2 A |
| Pin 1: | S-11A     | S-21A      |
| Pin 2: | S-12A     | S-22A      |



## AC506S

ClassicLine 4SI 2DO T 2LO

Bus system AS-Interface

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Pin 3: 0 V                             | Pin 3: 0 V                             |
| Pin 4: Output O3<br>(pnp)<br>Socket 1B | Pin 4: Output O4<br>(pnp)<br>Socket 2B |
| Pin 1: S-11B                           | Pin 1: S-21B                           |
| Pin 2: S-12B                           | Pin 2: S-22B                           |
| Pin 3: 0 V                             | Pin 3: 0 V                             |
| Pin 4: Output O3<br>(pnp)              | Pin 4: Output O4<br>(pnP)              |

### Accessories

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| Accessories (included) | lower part                                              |
| Accessories (optional) | Addressing cable E70213;<br>M12 protective cap (E73004) |

### Remarks

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| Remarks               | *) PL d, cat. 3, SILcl 2 only if the fault exclusions described in the manual are used |
| Pack quantity [piece] | 1                                                                                      |