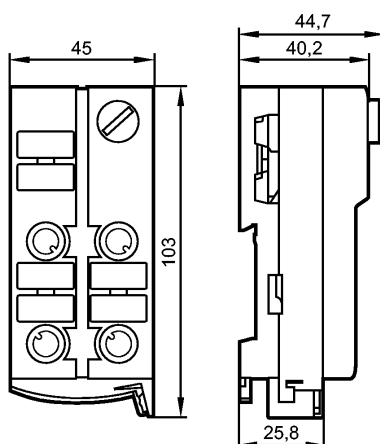


## AC505S

ClassicLine 2SI 2LO

Bussystem AS-Interface



### Produktmerkmale

- AS-i Safety at Work
- AS-i Flachkabel direkt kontaktierbar
- Steckbuchsen M12 x 1
- Sicheres AS-i Eingangsmodul 2SI / 2LO
- Adressierbuchse
- Flachkabelausrichtung in drei Richtungen möglich
- Entspricht den Anforderungen:  
EN ISO 13849-1: Kategorie 4 PL e  
IEC 62061: SILcl 3

### Elektrische Daten

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| Elektrische Ausführung           | 2 sichere Eingänge / 2 nicht sichere LED-Ausgänge |
| Betriebsspannung [V]             | 26,5...31,6 DC; "supply class 2" gemäß cULus      |
| Gesamtstromaufnahme aus AS-i[mA] | < 280                                             |

### Eingänge

|                                                     |                    |
|-----------------------------------------------------|--------------------|
| Digital                                             |                    |
| Beschaltung                                         | DC PNP/NPN         |
| Sensorversorgung                                    | AS-i               |
| Spannungsbereich [V]                                | 24 DC (18...30 DC) |
| Strombelastbarkeit für alle Eingänge<br>gesamt [mA] | 200                |
| Eingangsstrom High/Low [mA]                         | 12                 |
| Kurzschluss-Erkennung                               | ja                 |
| Querschuss-Erkennung                                | ja                 |
| Kurzschlussfest                                     | ja                 |

### Ausgänge

|                                     |    |
|-------------------------------------|----|
| LED-Ausgang                         | 2  |
| LED Ausgang<br>Versorgung über AS-i | ja |
| Watchdog integriert                 | ja |

### Umgebungsbedingungen

|                          |          |
|--------------------------|----------|
| Umgebungstemperatur [°C] | -25...55 |
| Schutzart                | IP 67    |

# AC505S

ClassicLine 2SI 2LO

Bussystem AS-Interface

## Zulassungen / Prüfungen

|     |            |
|-----|------------|
| EMV | EN 62026-2 |
|-----|------------|

## Sicherheitskennwerte

|                                  |     |                    |
|----------------------------------|-----|--------------------|
| Gebrauchsdauer TM (Mission Time) | [h] | 175200, (20 Jahre) |
| PFH                              |     | 1,3 x 10E-11 / h   |

## AS-i Kennwerte

|                                        |            |
|----------------------------------------|------------|
| AS-i Version                           | 2.11 + 3.0 |
| Erweiterter Adressmodus möglich        | nein       |
| Max. Anzahl sicherer Module pro Master | 31         |
| AS-i Profil                            | S-7.B.0    |
| E/A-Konfiguration [Hex]                | 7          |
| ID-Code [Hex]                          | B.0        |
| AS-i Zertifikat                        | 97101      |

## Mechanische Daten

|                   |                                                                |       |
|-------------------|----------------------------------------------------------------|-------|
| Gehäusewerkstoffe | PA; Piercingkontakte: CuSn6 Oberfläche vernickelt und verzinkt |       |
| Gewicht           | [kg]                                                           | 0,265 |

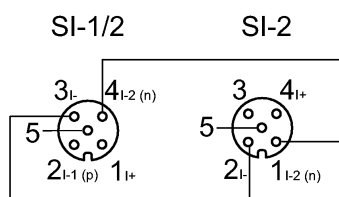
## Anzeigen / Bedienelemente

|                  |     |      |
|------------------|-----|------|
| Betrieb          | LED | grün |
| Fehler           | LED | rot  |
| Funktionsanzeige | LED | gelb |

## Elektrischer Anschluss

|                        |     |      |
|------------------------|-----|------|
| Maximale Leitungslänge | [m] | < 10 |
|------------------------|-----|------|

## Anschlussbelegung



| Buchse SI-1/2      | Buchse SI-2        |
|--------------------|--------------------|
| 1: Versorgung I+   | 1: Eingang I-2 (n) |
| 2: Eingang I-1 (p) | 2: Versorgung I-   |
| 3: Versorgung I-   | 3: nicht belegt    |
| 4: Eingang I-2 (n) | 4: Versorgung I+   |
| 5: nicht belegt    | 5: nicht belegt    |

## Zubehör

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| Zubehör (mitgeliefert) | Unterteil                                              |
| Zubehör (optional)     | Adressierkabel E70213;<br>Verschlusskappe M12 (E73004) |

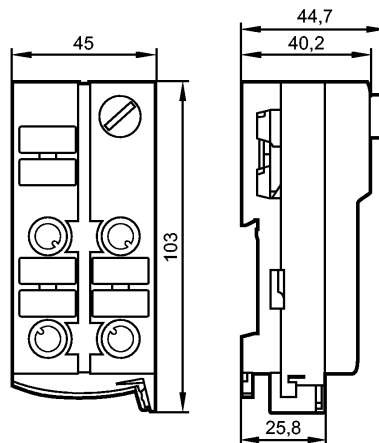
## Bemerkungen

|                    |         |                                                                                                 |
|--------------------|---------|-------------------------------------------------------------------------------------------------|
| Bemerkungen        |         | PL e, Kat.4, SILcl 3 nur wenn die im Handbuch beschriebenen Fehlerausschlüsse angewendet werden |
| Verpackungseinheit | [Stück] | 1                                                                                               |

## AC505S

ClassicLine 2SI 2LO

Bus system AS-Interface



### Product characteristics

AS-i Safety at Work

AS-i flat cable connection

Sockets M12 x 1

Safe AS-i input module 2SI - 2LO

Addressing socket

Three orientations of the flat cable are possible

Complies with the requirements:  
EN ISO 13849-1: category 4 PL e  
IEC 62061: SILcl 3

### Electrical data

|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| Electrical design                        | 2 safe inputs / 2 non-safe LED outputs     |
| Operating voltage [V]                    | 26.5...31.6 DC; "supply class 2" to cULus. |
| Total current consumption from AS-i [mA] | < 280                                      |

### Inputs

|                                             |                    |
|---------------------------------------------|--------------------|
| Digital                                     |                    |
| Circuit                                     | DC PNP/NPN         |
| Sensor supply                               | AS-i               |
| Voltage range [V]                           | 24 DC (18...30 DC) |
| Max. current load for all inputs total [mA] | 200                |
| Input current High/Low [mA]                 | 12                 |
| Short-circuit detection                     | yes                |
| Cross-bridging detection                    | yes                |
| Short-circuit proof                         | yes                |

### Outputs

|                              |     |
|------------------------------|-----|
| LED output                   | 2   |
| LED output / supply via AS-i | yes |
| Integrated watchdog          | yes |

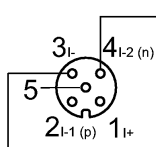
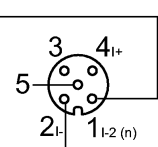
### Environment

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...55 |
| Protection               | IP 67    |

# AC505S

ClassicLine 2SI 2LO

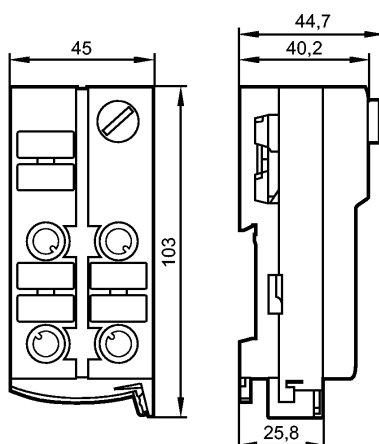
Bus system AS-Interface

| Tests / approvals                                                                                                                                                                                                                       |         |                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC                                                                                                                                                                                                                                     |         | EN 62026-2                                                                                                                                                                                                                                                           |
| Safety classification                                                                                                                                                                                                                   |         |                                                                                                                                                                                                                                                                      |
| Mission time TM                                                                                                                                                                                                                         | [h]     | 175200, (20 years)                                                                                                                                                                                                                                                   |
| PFH                                                                                                                                                                                                                                     |         | 1.3 x 10E-11 / h                                                                                                                                                                                                                                                     |
| AS-i classification                                                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                      |
| AS-i version                                                                                                                                                                                                                            |         | 2.11 + 3.0                                                                                                                                                                                                                                                           |
| Extended addressing mode possible                                                                                                                                                                                                       |         | no                                                                                                                                                                                                                                                                   |
| Max. number of safety modules per master                                                                                                                                                                                                |         | 31                                                                                                                                                                                                                                                                   |
| AS-i profile                                                                                                                                                                                                                            |         | S-7.B.0                                                                                                                                                                                                                                                              |
| I/O configuration [hex]                                                                                                                                                                                                                 |         | 7                                                                                                                                                                                                                                                                    |
| ID code [Hex]                                                                                                                                                                                                                           |         | B.0                                                                                                                                                                                                                                                                  |
| AS-i certificate                                                                                                                                                                                                                        |         | 97101                                                                                                                                                                                                                                                                |
| Mechanical data                                                                                                                                                                                                                         |         |                                                                                                                                                                                                                                                                      |
| Housing materials                                                                                                                                                                                                                       |         | PA; Piercing contacts: CuSn6 surface nickel and tin-plated                                                                                                                                                                                                           |
| Weight                                                                                                                                                                                                                                  | [kg]    | 0.265                                                                                                                                                                                                                                                                |
| Displays / operating elements                                                                                                                                                                                                           |         |                                                                                                                                                                                                                                                                      |
| Operation                                                                                                                                                                                                                               | LED     | green                                                                                                                                                                                                                                                                |
| Error                                                                                                                                                                                                                                   | LED     | Red                                                                                                                                                                                                                                                                  |
| Function display                                                                                                                                                                                                                        | LED     | yellow                                                                                                                                                                                                                                                               |
| Electrical connection                                                                                                                                                                                                                   |         |                                                                                                                                                                                                                                                                      |
| Max. cable length                                                                                                                                                                                                                       | [m]     | < 10                                                                                                                                                                                                                                                                 |
| Wiring                                                                                                                                                                                                                                  |         |                                                                                                                                                                                                                                                                      |
| <div><div><div>SI-1/2</div></div><div><div>SI-2</div></div></div> |         | <div><div>Socket SI-1/2</div><div>1: supply I+<br/>2: Input I-1 (p)<br/>3: supply I-<br/>4: Input I-2 (n)<br/>5: not used</div></div> <div><div>Socket SI-2</div><div>1: Input I-2 (n)<br/>2: supply I-<br/>3: not used<br/>4: supply I+<br/>5: not used</div></div> |
| Accessories                                                                                                                                                                                                                             |         |                                                                                                                                                                                                                                                                      |
| Accessories (included)                                                                                                                                                                                                                  |         | lower part                                                                                                                                                                                                                                                           |
| Accessories (optional)                                                                                                                                                                                                                  |         | Addressing cable E70213;<br>M12 protective cap (E73004)                                                                                                                                                                                                              |
| Remarks                                                                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                      |
| Remarks                                                                                                                                                                                                                                 |         | PL e, cat. 4, SIL CL 3 only if the fault exclusions described in the manual are used                                                                                                                                                                                 |
| Pack quantity                                                                                                                                                                                                                           | [piece] | 1                                                                                                                                                                                                                                                                    |

## AC505S

ClassicLine 2SI 2LO

Système bus AS-interface



### Caractéristiques du produit

AS-i Safety at Work

Câble plat AS-i à embrocher directement

Prises M12 x 1

Module d'entrée de sécurité AS-i 2 entrées de sécurité / 2 sorties de charge

Prise d'adressage

Possibilité d'orientation du câble plat dans trois directions

Conforme aux exigences:

EN ISO 13849-1: Catégorie 4 PL e

CEI 62061: SILcl 3

### Données électriques

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| Technologie                       | 2 entrées de sécurité / 2 sorties LED non sécurité |
| Tension d'alimentation [V]        | 26,5...31,6 DC; "supply class 2" selon cULus       |
| Consommation totale via AS-i [mA] | < 280                                              |

### Entrées

|                                                      |                    |
|------------------------------------------------------|--------------------|
| TOR                                                  |                    |
| Technologie                                          | DC PNP/NPN         |
| Alimentation des capteurs                            | AS-i               |
| Plage de tension [V]                                 | 24 DC (18...30 DC) |
| Courant de sortie total pour toutes les entrées [mA] | 200                |
| Courant d'entrée, niveau haut/bas [mA]               | 12                 |
| Détection de courts-circuits                         | oui                |
| Détection de ponts de croix                          | oui                |
| Résistant aux courts-circuits                        | oui                |

### Sorties

|                                    |     |
|------------------------------------|-----|
| Sortie LED                         | 2   |
| Sortie LED / alimentation via AS-i | oui |
| Chien de garde intégré             | oui |

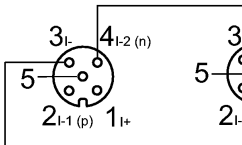
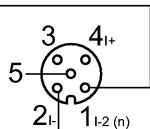
### Conditions d'utilisation

|                           |          |
|---------------------------|----------|
| Température ambiante [°C] | -25...55 |
| Protection                | IP 67    |

# AC505S

ClassicLine 2SI 2LO

Système bus AS-interface

| Tests / Homologations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                       |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------|
| CEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EN 62026-2                                                                                            |                  |
| Classification de sécurité                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                       |                  |
| Durée d'utilisation TM (Mission Time)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [h]                                                                                                   | 175200, (20 ans) |
| PFH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1,3 x 10E-11 / h                                                                                      |                  |
| Classification AS-i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                       |                  |
| Version AS-i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.11 + 3.0                                                                                            |                  |
| Mode d'adressage étendu possible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | non                                                                                                   |                  |
| Nombre maxi de modules de sécurité par maître                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 31                                                                                                    |                  |
| Profil AS-i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | S-7.B.0                                                                                               |                  |
| Configuration E/S [hexa]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7                                                                                                     |                  |
| Code ID [hexa]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | B.0                                                                                                   |                  |
| Certificat AS-i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 97101                                                                                                 |                  |
| Données mécaniques                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                       |                  |
| Matières boîtier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PA; Contacts vampires: Surface nickelée et étamée CuSn6                                               |                  |
| Poids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [kg]                                                                                                  | 0,265            |
| Afficheurs / éléments de service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |                  |
| Disponibilité                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LED                                                                                                   | vert             |
| Erreur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LED                                                                                                   | rouge            |
| Indication de fonction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LED                                                                                                   | jaune            |
| Raccordement électrique                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                       |                  |
| Longueur de câble maxi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | [m]                                                                                                   | < 10             |
| Branchement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                       |                  |
| <div><div><div><div>SI-1/2</div><div></div></div><div><div>SI-2</div><div></div></div></div><div><div>Connecteur femelle<br/>SI-1/2</div><div>1: Alimentation I+<br/>2: Entrée I-1 (p)<br/>3: Alimentation I-<br/>4: Entrée I-2 (n)<br/>5: non utilisé</div></div><div><div>Connecteur femelle<br/>SI-2</div><div>1: Entrée I-2 (n)<br/>2: Alimentation I-<br/>3: non utilisé<br/>4: Alimentation I+<br/>5: non utilisé</div></div></div> |                                                                                                       |                  |
| Accessoires                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                       |                  |
| Accessoires (fournis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | embase                                                                                                |                  |
| Accessoires (option)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | cordon d'adressage E70213;<br>bouchon M12 (E73004)                                                    |                  |
| Remarques                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |                  |
| Remarques                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PL e, cat. 4, SIL CL 3 uniquement si les exclusions de défaut décrites dans le manuel sont appliquées |                  |
| Quantité                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | [pièce]                                                                                               | 1                |