General Data
Type Reference: ASI_SAW16A, ASI_SAW16E, ASI_SAW22A, ASI_SAW22E,
Description: AS-Interface Slave (Safety at Work)
Approvals: ASI, cCSAus, TÜV_Süd, TÜV_SÜD, CE

Note
Communication
- AS-Interface specification: V 2.1
- Slave profile: ASI_SAWxxA S-7.B.E
  ASI_SAWxxE S-0.B.E
- Standby delay time: < 1s
- Input delay: < 5ms
- Connection: via 2-pole IDC connector (3.96mm) with lock mechanism and strain relief
  type ref.: "ASI_SL2AWG18"
- Addressing: via integrated connector or separate addressing connector *)

Ambient Conditions
- Operating temperature: -25 °C ...+70 °C
- Humidity: up to 95%, non-condensing
- Degree of protection /slave: IP20
- Pollution degree: 2 (acc. to IEC 60947-1)

Electrical Data
- Operating voltage: 26.5...36 V, through the AS-Interface line
  - Total power consumption: ASI_SAWxxA: <= 60 mA
    ASI_SAWxxE: <= 50 mA
  - Reverse polarity protection: available
  - Contacts: two positive opening contacts acc. to IEC60947-5-5
    - Safety integrity level: SIL 3
  - Output (not safe): for the control of a LED *)
    - Rated voltage: 24 V DC [+10%]
    - Max. power consumption: approx. 15mA
    - Short circuit/overload: LED output
    - Connection cable: type ref.: "VK_JST025BK1", "VK_JST034"

Norms and Standards
- Complete AS-Interface Specification, Version 2.11 Rev.1, V3.0 Rev. 0
- IEC 62026-2, IEC 60204-1, IEC 61508, EN 13850, IEC 60947-5-5
- TÜV Type Approval, UL/CSA Approval
- AS-Interface Certificate 62801

*) refers only to types ASI_SAW16A, ASI_SAW22A (with additional addressing connector)
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<tr>
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<tr>
<td><strong>AS-Interface Slave (Safety at Work) 16 mm</strong></td>
<td>ASI_SAW16A</td>
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<td>for safety-related control units of 16 mm mounting diameter, e.g. emergency-stop actuators</td>
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<td>- with short-circuit proof, individually controllable, digital output</td>
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| **AS-Interface Slave (Safety at Work) 16 mm**                            | ASI_SAW16E|
| for safety-related control units of 16 mm mounting diameter, e.g. emergency-stop actuators |           |
| - profile: S-0.B.E                                                       |           |
| - applicable standard: V 2.1                                              |           |
| - safety integrity level: SIL 3                                          |           |

| **AS-Interface Slave (Safety at Work) 22 mm**                            | ASI_SAW22A|
| for safety-related control units of 22 mm mounting diameter, e.g. emergency-stop actuators |           |
| - with short-circuit proof, individually controllable, digital output    |           |
| - permanent monitoring and safety shutdown if contact block and actuator are separated |           |
| - profile: S-7.B.E                                                       |           |
| - applicable standard: V 2.1                                              |           |
| - safety integrity level: SIL 3                                          |           |

| **AS-Interface Slave (Safety at Work) 22 mm**                            | ASI_SAW22E|
| for safety-related control units of 22 mm mounting diameter, e.g. emergency-stop actuators |           |
| - profile: S-0.B.E                                                       |           |
| - applicable standard: V 2.1                                              |           |
| - safety integrity level: SIL 3                                          |           |

| **Connection Cable**                                                      | VK_JST025BK1|
| serves to connect an illuminated emergency-stop pushbutton to a AS-Interface slave (Safety at Work), 2-core strand, red/black, 0.25 mm², with male connector crimped on both sides, length: approx. 10 cm |           |

| **Connection Cable**                                                      | VK_JST034|
| with open end, to connect e.g. an external LED signal lamp to an AS-Interface slave (Safety at Work), 2-core strand, red/black, 0.34 mm², with male connector crimped on one side, length: approx. 10 cm |           |
### Contact Blocks

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<td><img src="image1.png" alt="Image" /></td>
<td>Please refer to the E-stop enclosures for AS-Interface systems starting on page 596</td>
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| ![Image](image2.png) | IDC Connector **ASI_SB2AWG18**
2 poles, for AWG18, to connect the AS-Interface slaves by insulation piercing (IDC technology); with lock mechanism and strain relief

**Technical data:**
- connector spacing 3.96 mm
- wire size: AWG18 (0.8...1.0 mm²)
- outside dia.: 1.0...2.28 mm

Recommendation: optimal strain relief when used with „ASI_K2“ | **ASI_SB2AWG18** |
| ![Image](image3.png) | Cover with integrated strain relief
for 2-pole IDC connector | **ASI_K2** |
| ![Image](image4.png) | Hand Tool **ASI_MRT**
serves to press the single conductors into the IDC connector, connector spacing 3.96 mm | **ASI_MRT** |
| ![Image](image5.png) | AS-Interface Addressing Cable **ASI_PK500M12**
serves to address the slaves ASI_BZ, ASI_BZL5 with a commercial AS-Interface hand addressing device.

**Technical data:**
- PVC cable 500 mm, 2 x 0.75 mm²
- M12 straight-line plug | **ASI_PK500M12** |
| ![Image](image6.png) | Flexible Equipment Wire **ASI_SL2AWG18**
suitable for insulation piercing (IDC technology), serves to connect the AS-Interface slaves, twisted 2-core cable, brown/blue; 50 m per unit

**Technical data:**
- AWG18
- 19 wires
- conductor resistance 21 Ohm/km
- style no. 1007 / TR4
- operating temperature max. 80/90 °C (UL/CSA)
- storage temperature down to -55 °C
- acid/alkali-proof and oil-resistant
- flame-resistant
- keeps its elasticity under heat and cold | **ASI_SL2AWG18** |
## Contact Blocks

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| ![Flat Cable Branch with M12 socket](image1) | **Flat Cable Branch with M12 socket**  
without mounting straps, allows connection of a cable with M12 connector to the yellow profile line;  
Technical data:  
- 2 A max.  
- IP20 | ASI_AZM12 |
| ![Flat Cable Branch with M12 socket and mounting straps](image2) | **Flat Cable Branch with M12 socket and mounting straps**, allows the connection of a cable with M12 connector to the yellow profile line;  
Technical data:  
- 2 A max.  
- IP20 | ASI_AZM12L |
| ![M12 Straight-line Plug](image3) | **M12 Straight-line Plug**  
with plastic nut, self-assembly via screw connections, serves to connect the AS-Interface flexible equipment wire to a M12 connector  
Technical data:  
- 4 A max.  
- 4 poles  
- PG7 | ASI_M12 |
| ![M12 Right-angle Plug](image4) | **M12 Right-angle Plug**  
with plastic nut, self-assembly via screw connections, serves to connect the AS-Interface flexible equipment wire to a M12 connector.  
Technical data:  
- 4 A max.  
- 4 poles  
- PG7 | ASI_M12W |
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| ![Flat Cable Branch ASI_AZL](image1) | **Flat Cable Branch** ASI_AZL  
self-assembly via screw connections, with mounting straps, serves to connect the AS-Interface flexible equipment wire to the yellow profile line.  
Technical data:  
- 2 poles  
- 4 A max. |  |
| ![Flat Cable Branch ASI_AZ](image2) | **Flat Cable Branch** ASI_AZ  
self-assembly via screw connections, without mounting straps, serves to connect the AS-Interface flexible equipment wire to the yellow profile line.  
Technical data:  
- 2 poles  
- 4 A max. |  |