



NSI SWISS K

Made in Germany
Profile: 5.7 B.E. V2.1
26.5-31.6V max. 60mA
Dig. Output
24Vdc max. 15 mA
25170

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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"
via integrated connector or separate addressing connector *)
- Addressing:

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...3.,6 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_JST025BKL", "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

- The Schlegel ASi slaves comply with the specification
AS-Interface POWER24 and can also be operated at 24 V.

*) refers only to types ASI_SAW16A, ASI_SAW22A (with additional addressing connector)

Illustration

Description

Type



AS-Interface Slave (Safety at Work) 16 mm

ASI_SAW16A

- for safety-related control units of 16 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



suitable actuators



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



suitable actuators



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



suitable actuators



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



suitable actuators



Connection Cable

VK_JST025BKL

- 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

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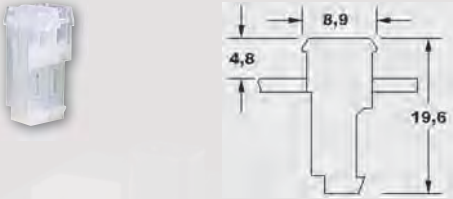




Enclosures

Terminal Blocks

Pedal Switches

Limit Switches

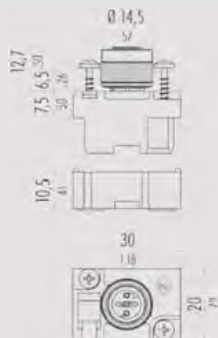
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Illustration	Description	Type
	<p>Please refer to the E-stop enclosures for AS-Interface systems starting on page 596</p>	
	<p>IDC Connector 2 poles, for AWG18, to connect the AS-Interface slaves by insulation piercing (IDC technology); with lock mechanism and strain relief</p> <p>Technical data: · connector spacing 3.96 mm · wire size: AWG18 (0.8...1.0 mm²) · outside dia.: 1.0...2.28 mm</p> <p>Recommendation: optimal strain relief when used with „ASI_K2“</p>	<p>ASI_SB2AWG18</p>
	<p>Cover with integrated strain relief for 2-pole IDC connector</p>	<p>ASI_K2</p>
	<p>Hand Tool serves to press the single conductors into the IDC connector, connector spacing 3.96 mm</p>	<p>ASI_MRT</p>
	<p>AS-Interface Addressing Cable serves to address the slaves ASI_BZ, ASI_BZL5 with a commercial AS-Interface hand addressing device.</p> <p>Technical data: · PVC cable 500 mm, 2 x 0.75 mm² · M12 straight-line plug</p>	<p>ASI_PK500M12</p>
	<p>Flexible Equipment Wire suitable for insulation piercing (IDC technology), serves to connect the AS-Interface slaves, twisted 2-core cable, brown/blue; 50 m per unit</p> <p>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</p>	<p>ASI_SL2AWG18</p>

Illustration

Description

Type

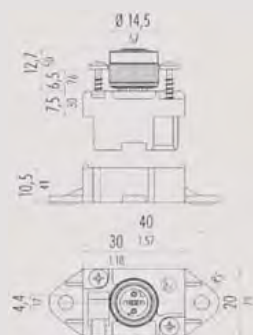


Flat Cable Branch with M12 socket

ASI_AZM12

without mounting straps, allows connection of a cable with M12 connector to the yellow profile line;

Technical data:
· 2 A max.
· IP20



Flat Cable Branch with M12 socket

ASI_AZM12L

and mounting straps, allows the connection of a cable with M12 connector to the yellow profile line;

Technical data:
· 2 A max.
· IP20



M12 Straight-line Plug

ASI_M12

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



M12 Right-angle Plug

ASI_M12W

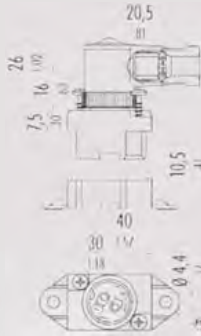
with plastic nut, self-assembly via screw connections, serves to connect the AS-Interface flexible equipment wire to a M12 connector.

Technical data:
· 4 A max.
· 4 poles
· PG7

Illustration

Description

Type

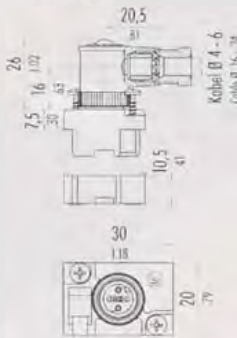


Flat Cable Branch

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

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.

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