



General Data

Type Reference:	ASI_BZ, ASI_BZL5
Description:	AS-Interface-Slave
Approvals:	ASI, cCSAus, GOST-R, UkrSepro

Communication

- AS-Interface Specification:	V2.11
- Slave profile:	S-B.A.E
- Connection:	via 2-pole IDC connector (3.96mm), type ref. "ASI_SB2AWG18"
- Connection cable:	double-core flexible wire, AWG18, e.g. "ASI_SL2AWG18"
- Max. network length:	100m (without repeater)
- Max. cycle time:	< 10ms (62 A/B slaves)

Ambient Conditions

- Operating temperature:	-25°C ... +70°C
- Storage temperature:	-40°C ... +80°C
- Humidity:	up to 95%, non-condensing

Mechanical Data

- Operating travel:	<= 3mm
- Operating cycles:	>= 1 million

Electrical Data

- Power supply:	26.5...31.6 V, through the AS-Interface line
- Total power consumption:	<= 30 mA
- Signalling unit - output *1):	supply through AS-Interface line, continuously short-circuit proof, overload protection
Max. load current of LED:	20 mA
Luminous intensity:	via DO/D1 individually controllable/dimmable in 4 steps
Rated voltage:	24 V DC (+10%)
Socket:	T5,5k
LED, Schlegel ref.:	L5,5k24U...

Norms and Standards:

CE, IEC 62026-2, cCSAus

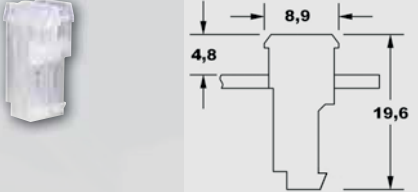



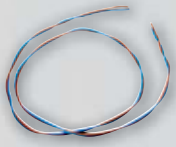
The Schlegel ASi slaves comply with the specification AS-Interface POWER24 and can also be operated at 24 V.

*1) only ASI_BZL5

Contact Blocks

2-pole connector (3.96 mm spacing)

Illustration	Description	Type															
  	<p>AS-Interface Slave bus-compatible (2 I/2O) 2-pole connector (3.96 mm spacing) - unlighted - small mounting depth due to built-in IDC connector - with 2 integrated inputs D2/D3 - profile: S-B.A.E - applicable standard: V2.11 - reversely compatible to type ASI_BZII5</p> <p>suitable actuators </p>	<p>ASI_BZ</p>															
   	<p>AS-Interface Slave with T5,5K socket bus-compatible (2 I/2O) 2-pole connector (3.96 mm spacing) - illuminated, LED socket T5,5K - small mounting depth due to built-in IDC connector - with 2 integrated inputs D2/D3 - with 1 integrated LED output, individually controllable/dimmable (4 steps) via D0/D1 - profile: S-B.A.E - applicable standard: V2.11 - reversely compatible to type ASI_BZLII5</p> <p>lamp socket T5,5K</p> <p>suitable actuators </p>	<p>ASI_BZL5</p>															
	<p>Ultra-bright LED, T5.5K socket - 24V with integrated series resistor and single-wave rectifier for 24V AC/DC (7/14 mA) When connecting to DC, the correct polarity must be observed: + ... X1/- ... X2 storage temperature: -25°C ... +80°C ambient temperature: -20°C ... +60°C voltage tolerance: +10 %</p> <table border="0"> <tr> <td>colour</td> <td>blue</td> <td>L5,5K24UB</td> </tr> <tr> <td></td> <td>green</td> <td>L5,5K24UG</td> </tr> <tr> <td></td> <td>red</td> <td>L5,5K24UR</td> </tr> <tr> <td></td> <td>white</td> <td>L5,5K24UW</td> </tr> <tr> <td></td> <td>yellow</td> <td>L5,5K24UY</td> </tr> </table>	colour	blue	L5,5K24UB		green	L5,5K24UG		red	L5,5K24UR		white	L5,5K24UW		yellow	L5,5K24UY	
colour	blue	L5,5K24UB															
	green	L5,5K24UG															
	red	L5,5K24UR															
	white	L5,5K24UW															
	yellow	L5,5K24UY															

Illustration	Description	Type
	<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>

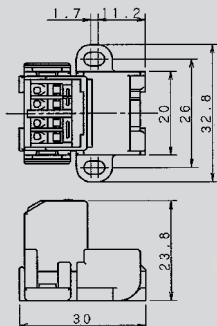
Contact Blocks

2-pole connector (3.96 mm spacing)

Illustration

Description

Type

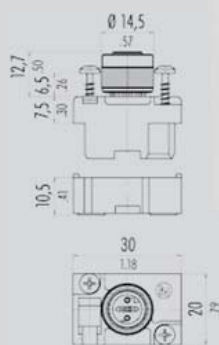


Flat Cable Branch with spring clamp connection **LA9Z-SNTB**

serves to connect the AS-Interface slaves to the yellow profile line;

Technical data:

- AWG20-AWG18
- 31,6V / ≤ 3A
- IP20
- ambient temperature: -25 up to 55° C
- outside dia. of wire: 1.0...2.28 mm

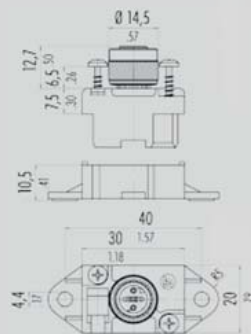


Flat Cable Branch with M12 socket **ASI_AZM12**

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

Illustration

Description

Type



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



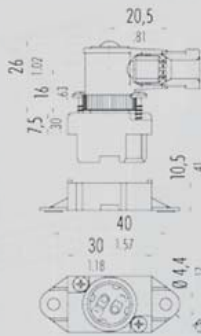
Flat Cable Branch

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.



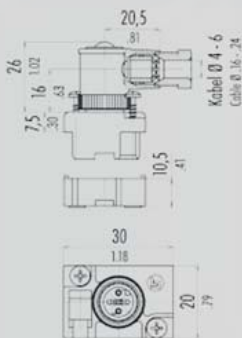
Flat Cable Branch

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.



Control Units
Gateway Blocks
Bus Technology
Profibus
Amplifiers
Power Supplies



General Data

Type Reference: ASI_SAW16A, ASI_SAW16E, ASI_SAW22A, ASI_SAW22E,
Description: AS-Interface Slave (Safety at Work)
Approvals: ASI, cCSAus, GOST-R, TÜV_SÜD, CE, UkrSepru

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)

Contact Blocks

2-pole connector (3.96 mm spacing)

Illustration

Description

Type



ASI-Interface Slave (Safety at Work) 16 mm

- 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



ASI_SAW16A



ASI-Interface Slave (Safety at Work) 16 mm

- 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



ASI_SAW16E



ASI-Interface Slave (Safety at Work) 22 mm

- 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



ASI_SAW22A



ASI-Interface Slave (Safety at Work) 22 mm

- 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



ASI_SAW22E



Connection Cable

- 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

VK_JST025BKL

Illustration

Description

Type



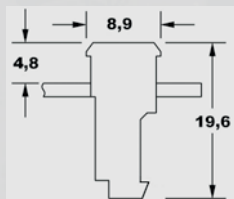
Connection Cable

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



Please refer to the E-stop enclosures for AS-Interface systems starting on page 592



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“



Cover with integrated strain relief
for 2-pole IDC connector

ASI_K2



Hand Tool

ASI_MRT

serves to press the single conductors into the IDC connector, connector spacing 3.96 mm



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

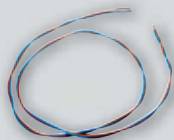
Contact Blocks

2-pole connector (3.96 mm spacing)

Illustration

Description

Type



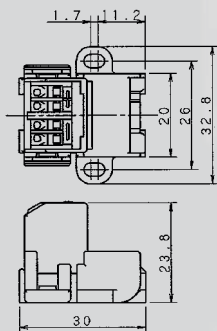
Flexible Equipment Wire

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
- tyle 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



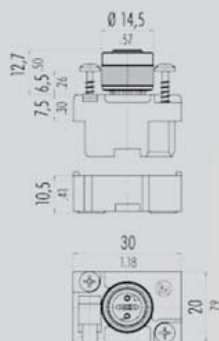
Flat Cable Branch with spring clamp connection

LA9Z-SNTB

serves to connect the AS-Interface slaves to the yellow profile line;

Technical data:

- AWG20-AWG18
- 31,6V / <= 3A
- IP20
- ambient temperature: -25 up to 55° C
- outside dia. of wire: 1.0...2.28 mm



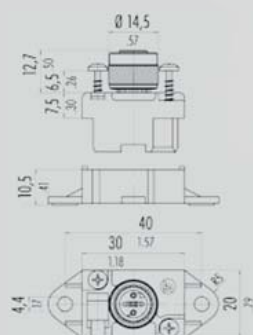
Flat Cable Branch with M12 socket

ASI_AZM12

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

Technical data:

- 2 A max.
- IP20






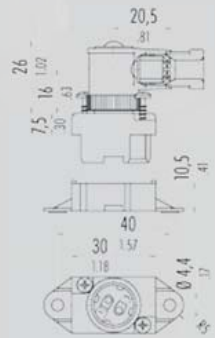

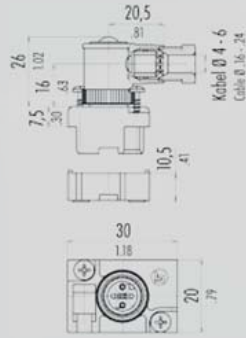
Flat Cable Branch with M12 socket

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

Illustration	Description	Type
	<p>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</p> <p>Technical data: <ul style="list-style-type: none"> · 4 A max. · 4 poles · PG7 </p>	<p>ASI_M12</p>
	<p>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.</p> <p>Technical data: <ul style="list-style-type: none"> · 4 A max. · 4 poles · PG7 </p>	<p>ASI_M12W</p>
 	<p>Flat Cable Branch self-assembly via screw connections, with mounting straps, serves to connect the AS-Interface flexible equipment wire to the yellow profile line.</p> <p>Technical data: <ul style="list-style-type: none"> · 2 poles · 4 A max. </p>	<p>ASI_AZL</p>
 	<p>Flat Cable Branch self-assembly via screw connections, without mounting straps, serves to connect the AS-Interface flexible equipment wire to the yellow profile line.</p> <p>Technical data: <ul style="list-style-type: none"> · 2 poles · 4 A max. </p>	<p>ASI_AZ</p>