

AS-Interface module, 2 safe inputs, 1 LED, red, 4-pole connector with screw terminal and 4-pole connector with spring-type terminal, for front plate mounting



<b>Product brand name</b>	SIRIUS ACT
<b>Product designation</b>	AS-Interface module
<b>Product type designation</b>	3SU1
<b>General technical data</b>	
<b>Product function</b>	2F-DI / 1 LED
<b>Degree of pollution</b>	3
<b>Type of voltage</b>	
• of the operating voltage	DC
• of the input voltage	DC
<b>Consumed current</b>	
• maximum	60 mA
<b>Protection class IP</b>	IP20
<b>Shock resistance</b>	
• for railway applications acc. to DIN EN 61373	Category 1, Class B
<b>Vibration resistance</b>	
• for railway applications acc. to DIN EN 61373	Category 1, Class B
<b>Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750</b>	A
<b>Reference code acc. to DIN EN 81346-2</b>	K

Reference code acc. to DIN EN 61346-2	K
Design of the slave type	2 F-DI + 1 LED
AS interface slave profile	S-7.B.F
ID1 code	1...F
Number of AS-i slaves	1
Protocol is supported ASIsafe (Safety at work) protocol	Yes
Operating voltage	
• rated value	26.5 ... 31.6 V
Operating voltage 1	
• at DC rated value	30 V

#### Communication/ Protocol

Protocol is supported	
• AS-Interface protocol	Yes

#### Inputs/ Outputs

Number of digital inputs	
• safety-related	2
Number of digital outputs	1; For controlling the LED

#### Connections/ Terminals

Type of electrical connection	Screw connection + spring-type terminal
Type of connectable conductor cross-sections	
• solid without core end processing	1x (0.2 ... 2.5 mm <sup>2</sup> )
• finely stranded with core end processing	1x (0.25 ... 2.5 mm <sup>2</sup> )
• finely stranded without core end processing	1x (0.2 ... 2.5 mm <sup>2</sup> )
• at AWG conductors	1x (30 ... 12)
Tightening torque	
• with screw-type terminals	0.5 ... 0.6 N·m

#### Lamp

Color of the light source	red
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#### Product Function

Suitability for use	
• safety-related circuits	Yes

#### Safety related data

Safety Integrity Level (SIL) acc. to IEC 61508	3
SIL Claim Limit (subsystem) acc. to EN 62061	SILCL 3
Performance level (PL) acc. to EN ISO 13849-1	e
Safe failure fraction (SFF)	99 %
Average diagnostic coverage level (DCavg)	99 %
PFHD with high demand rate acc. to EN 62061	0.0000000045 1/h
PFDavg with low demand rate acc. to IEC 61508	0.000005

Category acc. to EN 954-1	4
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### Ambient conditions


<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>	<p>-25 ... +70 °C</p> <p>-40 ... +80 °C</p>
Environmental category during operation acc. to IEC 60721	3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 ... 95 %, no condensation in operation permitted)

### Installation/ mounting/ dimensions

<b>Mounting type</b>	
<ul style="list-style-type: none"> <li>of modules and accessories</li> <li>of AS-i slaves</li> </ul>	<p>Front plate mounting</p> <p>Frontplattenbefestigung</p>
<b>Height</b>	42 mm
<b>Width</b>	30 mm
<b>Depth</b>	66.9 mm

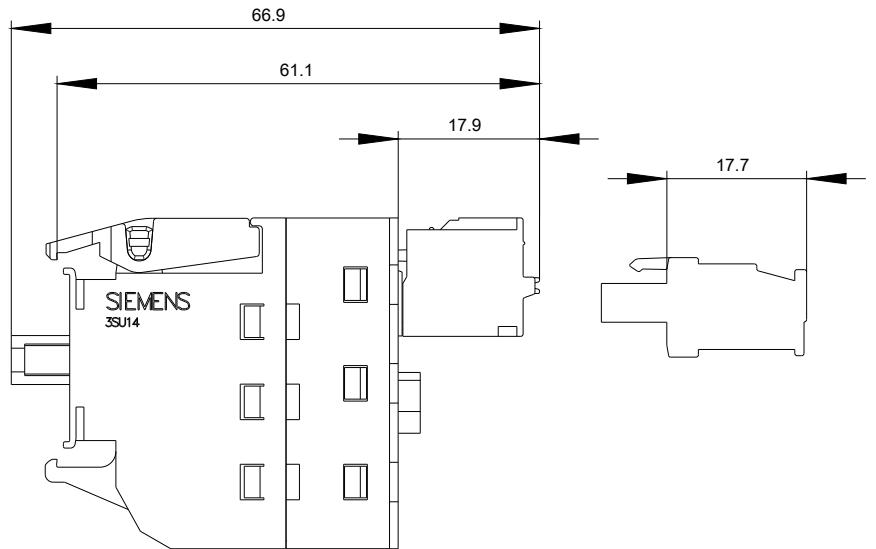
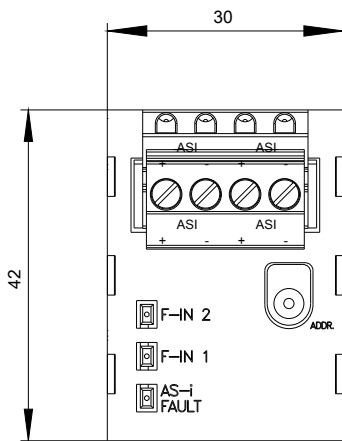
### Certificates/ approvals

<b>General Product Approval</b>	<b>EMC</b>	<b>Functional Safety/Safety of Machinery</b>	<b>Declaration of Conformity</b>
 UL		 RCM	 EG-Konf.
		<a href="#">Type Examination Certificate</a>	<a href="#">Miscellaneous</a>

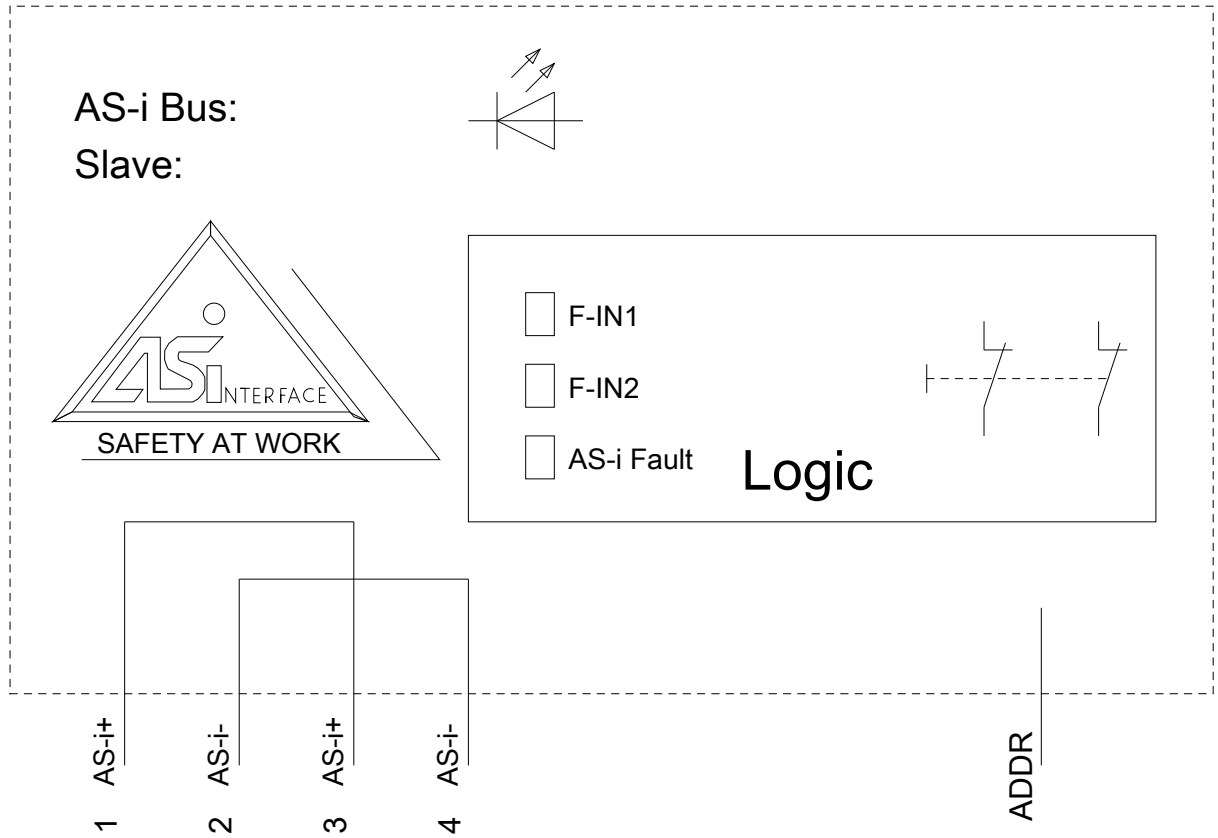
<b>Test Certificates</b>	<b>other</b>
<a href="#">Type Test Certificates/Test Report</a> <a href="#">Special Test Certificate</a>	 ASi <a href="#">Confirmation</a>

### Further information

- Information- and Downloadcenter (Catalogs, Brochures,...)**  
<https://www.siemens.com/ic10>
- Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3SU1401-1EE20-2AA0>
- Cax online generator**  
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3SU1401-1EE20-2AA0>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1EE20-2AA0>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3SU1401-1EE20-2AA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3SU1401-1EE20-2AA0&lang=en)



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