

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



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

Reference code acc. to DIN EN 61346-2	K
Design of the slave type	2 F-DI + 1 DO
AS interface slave profile	S-7.B.F
ID1 code	0...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; Unrestricted

#### 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

#### 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 (DC <sub>avg</sub> )	99 %
PFHD with high demand rate acc. to EN 62061	0.0000000045 1/h
PFDA <sub>avg</sub> with low demand rate acc. to IEC 61508	0.000005
Category acc. to EN 954-1	4

#### 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, 3C3 (without salt spray), 3K6 (with relative 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>	65.5 mm

### Certificates/ approvals

General Product Approval	EMC	Functional Safety/Safety of Machinery	Declaration of Conformity
			
UL		RCM	EG-Konf.

[Type Examination Certificate](#)      [Miscellaneous](#)

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

### 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?mlfb=3SU1400-1EC10-2AA0>
- Cax online generator**  
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1EC10-2AA0>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1EC10-2AA0>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1400-1EC10-2AA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1EC10-2AA0&lang=en)

