

AS-Interface module, 2 safe inputs, 1 LED, red, spring-type terminal and insulation displacement system, 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 LED
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 LED
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
<b>Operating voltage</b>	
• rated value	26.5 ... 31.6 V
<b>Operating voltage 1</b>	
• at DC rated value	30 V

#### Communication/ Protocol

<b>Protocol is supported</b>	
• AS-Interface protocol	Yes

#### Inputs/ Outputs

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

#### Connections/ Terminals

<b>Type of electrical connection</b>	Insulation displacement method
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#### Lamp

<b>Color of the light source</b>	red
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#### Product Function

<b>Suitability for use</b>	
• 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
<b>Safe failure fraction (SFF)</b>	99 %
<b>Average diagnostic coverage level (DCavg)</b>	99 %
<b>PFHD with high demand rate acc. to EN 62061</b>	0.0000000045 1/h
<b>PFDAvg with low demand rate acc. to IEC 61508</b>	0.000005
<b>Category acc. to EN 954-1</b>	4





#### Ambient conditions


<b>Ambient temperature</b>	
• during operation	-25 ... +70 °C
• during storage	-40 ... +80 °C
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>	Front plate mounting Frontplattenbefestigung
<b>Height</b>	42 mm
<b>Width</b>	30 mm
<b>Depth</b>	66.9 mm

## Certificates/ approvals

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

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

## 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=3SU1401-1EE20-4AA0>

### Cax online generator

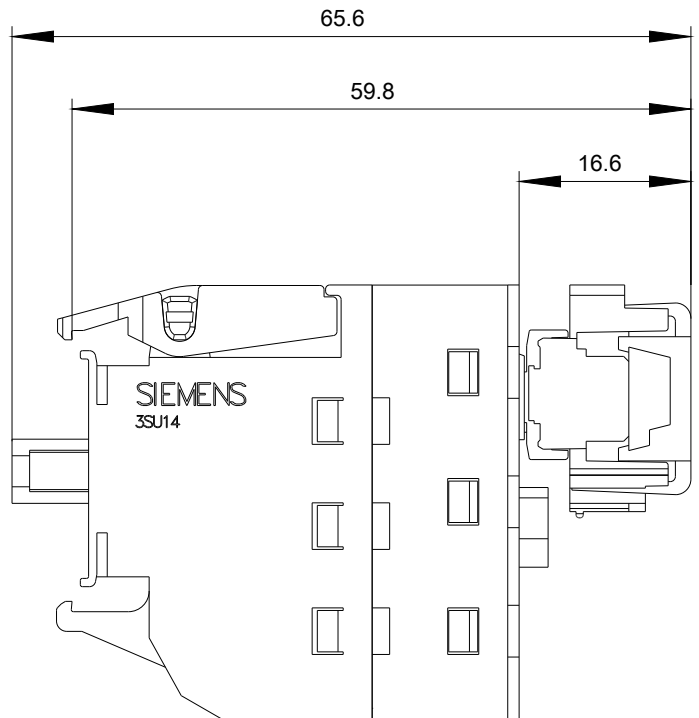
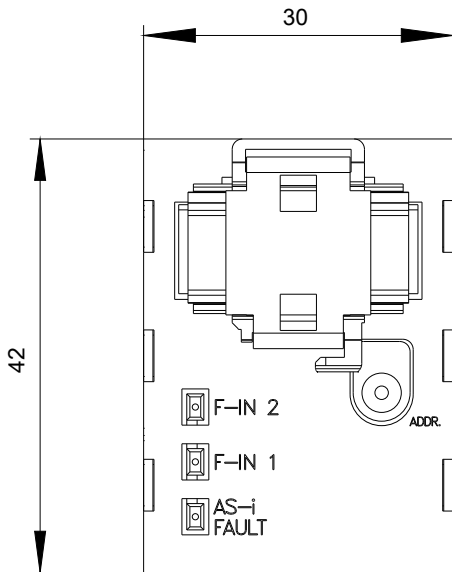
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-1EE20-4AA0>

### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1EE20-4AA0>

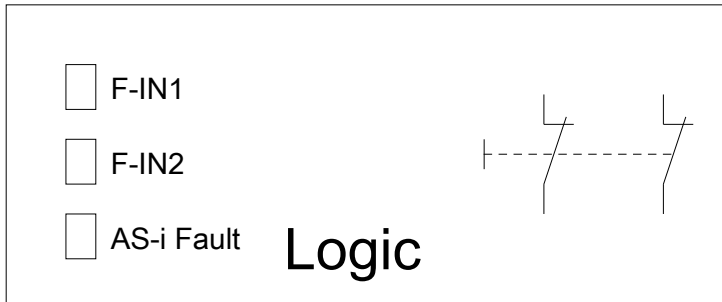
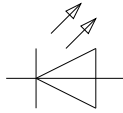
### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1401-1EE20-4AA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-1EE20-4AA0&lang=en)



-K1

AS-i Bus:  
Slave:



ASI+

ASI-

ADDR

last modified:

08/06/2020