



AS-Interface module, 2 safe inputs, 1 LED, red, spring-type terminal and insulation displacement system, 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 maximum</b>	60 mA
<b>protection class IP</b>	IP20
<b>shock resistance for railway applications according to EN 61373</b>	Category 1, Class B
<b>vibration resistance for railway applications according to EN 61373</b>	Category 1, Class B
<b>reference code according to IEC 81346-2</b>	K
<b>Substance Prohibition (Date)</b>	10/01/2014
<b>SVHC substance name</b>	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
<b>design of the slave type</b>	2 F-DI + 1 LED
<b>AS-Interface slave profile</b>	S-7.B.F
<b>ID1 code</b>	0...F
<b>number of AS-i slaves</b>	1
<b>protocol is supported ASIsafe (Safety at work) protocol</b>	Yes
<b>operating voltage rated value</b>	26.5 ... 31.6 V
<b>operating voltage 1 at DC rated value</b>	30 V
<b>Communication/ Protocol</b>	
<b>protocol is supported AS-Interface protocol</b>	Yes
<b>Inputs/ Outputs</b>	
<b>number of digital inputs</b>	
• safety-related	2
<b>number of digital outputs</b>	1; For controlling the LED
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	Insulation displacement method
<b>Lamp</b>	
<b>color of the light source</b>	red
<b>Product Function</b>	
<b>product function suitable for safety function</b>	Yes
<b>suitability for use safety-related circuits</b>	Yes
<b>Safety related data</b>	
<b>category according to EN 954-1</b>	4

average diagnostic coverage level (DCavg)	99 %
<b>IEC 62061</b>	
SIL Claim Limit (subsystem) according to EN 62061	SILCL 3
<b>Safety Integrity Level (SIL) according to IEC 62061</b>	3
<b>ISO 13849</b>	
<b>performance level (PL) according to ISO 13849-1</b>	e
<b>IEC 61508</b>	
Safety Integrity Level (SIL) according to IEC 61508	3
<b>PFDAvg with low demand rate according to IEC 61508</b>	5E-6
<b>PFHD with high demand rate according to IEC 61508</b>	4.5E-9 1/h
<b>Safe failure fraction (SFF)</b>	99 %

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

<b>Environmental footprint</b>	
Environmental Product Declaration (EPD)	Yes
Global Warming Potential [CO2 eq] total	0.787 kg
Global Warming Potential [CO2 eq] during manufacturing	0.566 kg
Global Warming Potential [CO2 eq] during operation	0.235 kg
global warming potential [CO2 eq] after end of life	-0.015 kg

<b>Installation/ mounting/ dimensions</b>	
<b>fastening method</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

<b>Approvals Certificates</b>			
General Product Approval	EMC	Functional Safety/Safety of Machinery	Declaration of Conformity

[Confirmation](#)



[Type Examination Certificate](#)



Declaration of Conformity	Test Certificates	other	Environment
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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



[Confirmation](#)

[Environmental Confirmations](#)

**Further information**

Siemens has decided to exit the Russian market (see here).  
<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.  
 Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>

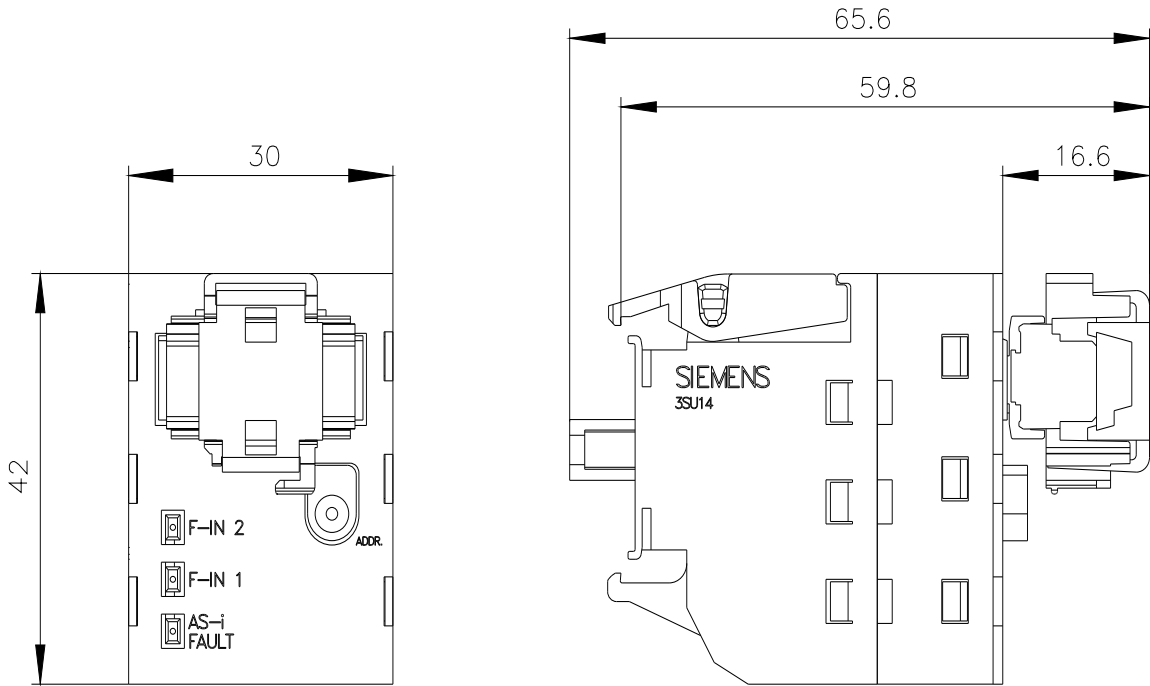
Information- and Downloadcenter (Catalogs, Brochures,...)  
<https://www.siemens.com/ic10>

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, ...)



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