

Siemens  
EcoTech



AS-Interface module, 2 safe inputs, 1 output, black, insulation displacement system and 2-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 DQ
<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 Prohibitance (Date)</b>	10/01/2014
<b>SVHC substance name</b>	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Diboron trioxide - 1303-86-2
<b>Weight</b>	66 g
<b>design of the device type</b>	2 F-DI + 1 DQ
<b>AS-Interface device profile</b>	S-7.B.F
<b>ID1 code</b>	0...F
<b>number of AS-i devices</b>	1
<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</b>	
• AS-Interface protocol	Yes
• ASIsafe (Safety at work) protocol	Yes
<b>Inputs/ Outputs</b>	
<b>number of digital inputs</b>	
• safety-related	2
<b>number of digital outputs</b>	1; Unrestricted
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	spring-loaded terminal + insulation displacement method
<b>type of connectable conductor cross-sections</b>	

- solid without core end processing 1x (0.2 ... 2.5 mm<sup>2</sup>)
- finely stranded with core end processing 1x (0.25 ... 1.5 mm<sup>2</sup>)
- finely stranded without core end processing 1x (0.22 ... 1.5 mm<sup>2</sup>)
- for AWG cables 1x (24 ... 16)

#### Product Function

suitability for use safety-related circuits Yes

#### Safety related data

product function suitable for safety function Yes

**safe state** off

**test wear-related service life necessary** No

category according to EN 954-1 4

**average diagnostic coverage level (DCavg)** 99 %

#### IEC 62061

SIL Claim Limit (subsystem) according to EN 62061 SIL CL 3

**Safety Integrity Level (SIL) according to IEC 62061** SIL 3

PFHD with high demand rate according to IEC 62061 0 1/h

#### ISO 13849

**performance level (PL) according to ISO 13849-1** PL e

**category according to ISO 13849-1** 4

**device type according to ISO 13849-1** 1

#### IEC 61508

##### Safety Integrity Level (SIL)

- according to IEC 61508 SIL 3

**safety device type according to IEC 61508-2** Type B

**PFHD with high demand rate according to IEC 61508** 0 1/h

PFDAvg with low demand rate according to IEC 61508 5E-6

**Safe failure fraction (SFF)** 99 %

hardware fault tolerance according to IEC 61508 1

T1 value of service life according to IEC 61508 20 a

#### Ambient conditions

##### ambient temperature

- during operation -25 ... +70 °C
- during storage -40 ... +80 °C

environmental category during operation according to IEC 60721 3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10 ... 95%, no condensation in operation permitted)

#### Environmental footprint

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

Siemens Eco Profile (SEP) Siemens EcoTech

#### Installation/ mounting/ dimensions

##### fastening method

- of modules and accessories Front plate mounting
- of the AS-i devices Frontplattenbefestigung

**height** 42 mm

**width** 30 mm

**depth** 65.5 mm

#### Approvals Certificates

General Product Approval

EMV

Test Certificates



[Special Test Certificate](#)

Test Certificates

Maritime application

other



other Environment Industrial Communication

[Confirmation](#)



Siemens EcoTech



[Environmental Confirmations](#)



Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3SU1400-1EC10-4AA0>

Cax online generator

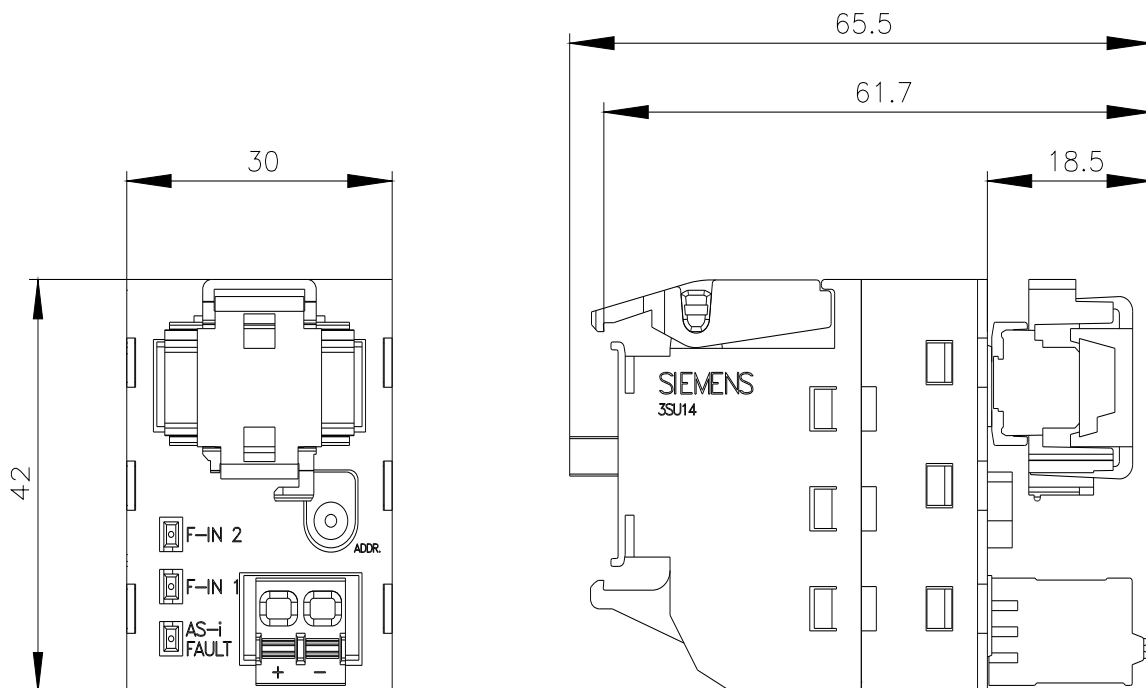
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1EC10-4AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1EC10-4AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1400-1EC10-4AA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1EC10-4AA0&lang=en)



-K1

AS-i Bus:  
Slave:



F-IN1

F-IN2

AS-i Fault **Logic**

A logic symbol for AS-i Fault Logic, consisting of a horizontal line with two vertical lines extending upwards from it, resembling a stylized '7' or a specific logic gate symbol.

ASI+

ASI-

+

-

ADDR

last modified:

11/21/2025