

Siemens
EcoTech



AS-Interface module, 2 safe inputs, 1 LED, red, Spring-type terminal (Push-in), for floor mounting



product brand name	SIRIUS ACT
product designation	AS-Interface module
product type designation	3SU1
General technical data	
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 according to EN 61373	Category 1, Class B
vibration resistance for railway applications according to EN 61373	Category 1, Class B
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	10/01/2014
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Diboron trioxide - 1303-86-2
Net Weight	41 g
design of the device type	2 F-DI + 1 LED
AS-Interface device profile	S-7.B.0
ID1 code	0...F
number of AS-i devices	1
operating voltage rated value	18 ... 31.6 V
operating voltage 1 at DC rated value	30 V
Communication/ Protocol	
protocol is supported	
• AS-Interface protocol	Yes
• ASIsafe (Safety at work) protocol	Yes
Inputs/ Outputs	
number of digital inputs	0
• safety-related	2
number of digital outputs	1; For controlling the LED
Connections/ Terminals	
type of electrical connection	spring-loaded terminal (push-in)
type of connectable conductor cross-sections	

- solid without core end processing
- finely stranded without core end processing
- for AWG cables

1x (0.14 ... 0.5 mm²)
 1x (0.2 ... 0.5 mm²)
 1x (26 ... 20)

Lamp

color of the light source

red

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
- during storage

-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)

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
- of the AS-i devices

Floor mounting

Floor mounting

height

54.6 mm

width

25.9 mm

depth

36.7 mm

Approvals Certificates

General Product Approval

EMV

Test Certificates



[Special Test Certificate](#)

Test Certificates

Maritime application

other

other	Environment	Industrial Communication
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[Confirmation](#)



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[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=3SU1401-2EE20-6AA0>

Cax online generator

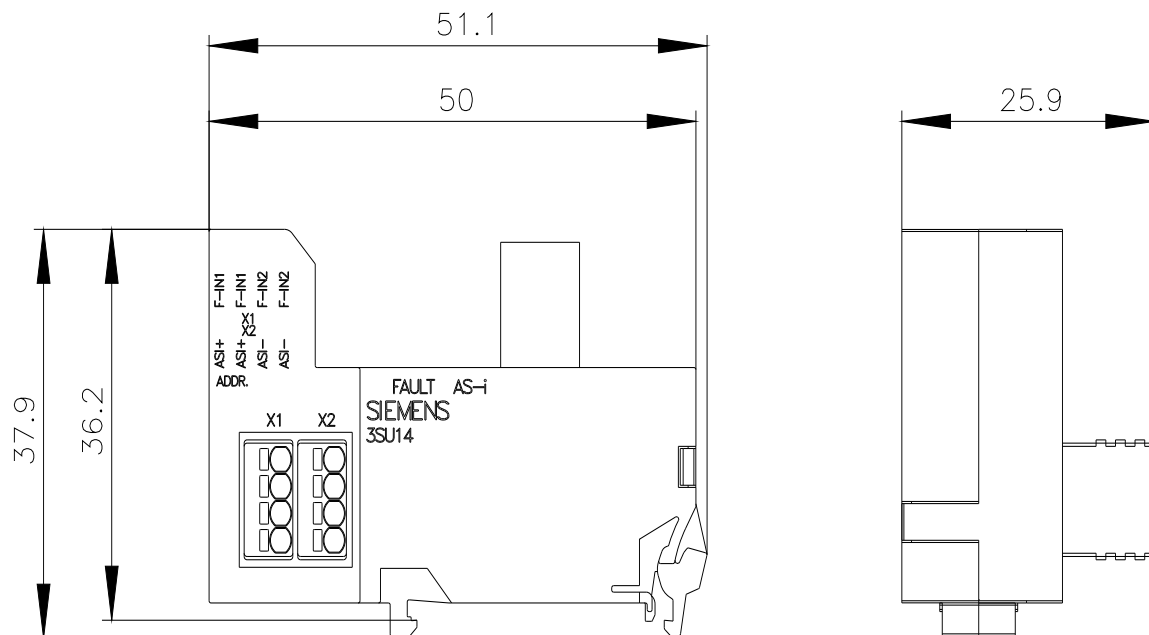
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2EE20-6AA0>

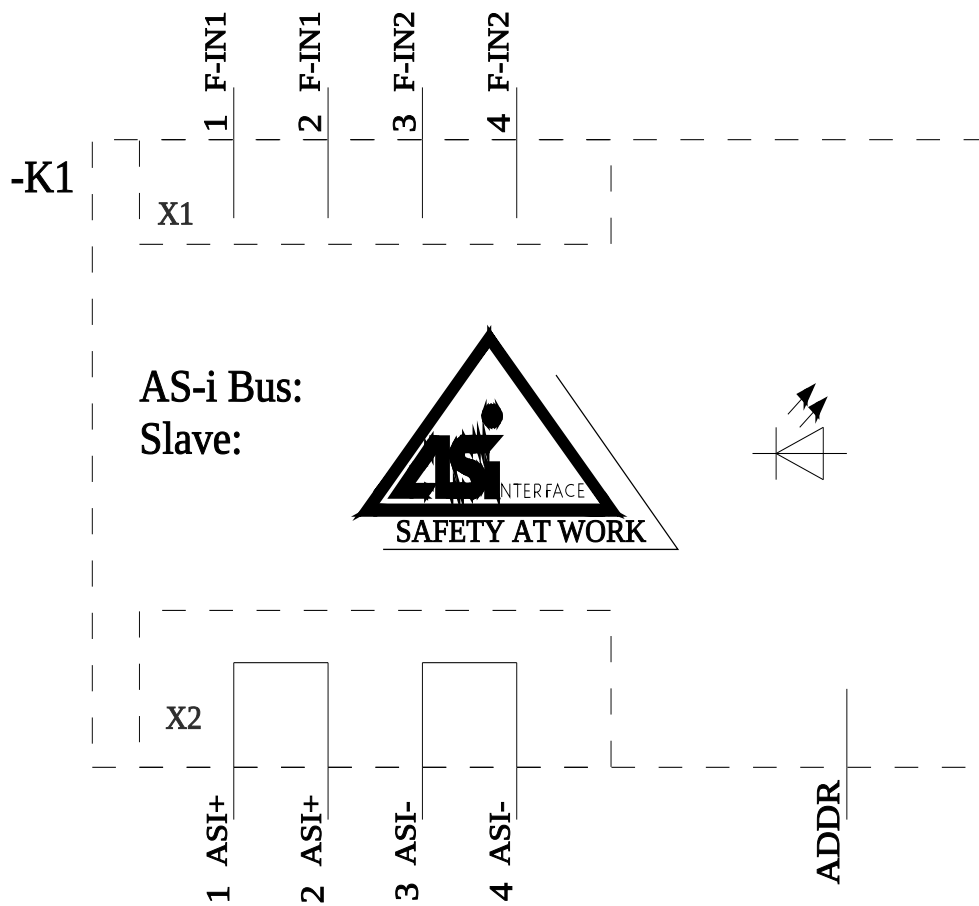
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-2EE20-6AA0>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-2EE20-6AA0&lang=en





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