

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 Prohibitation (Date)	10/01/2014
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Diboron trioxide - 1303-86-2
design of the slave type	2 F-DI + 1 LED
AS-Interface slave profile	S-7.B.0
ID1 code	0...F
number of AS-i slaves	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	1x (0.14 ... 0.5 mm ²)
• finely stranded without core end processing	1x (0.2 ... 0.5 mm ²)

• for AWG cables	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
category according to EN 954-1	4
average diagnostic coverage level (DCavg)	99 %
IEC 62061	
SIL Claim Limit (subsystem) according to EN 62061	SILCL 3
Safety Integrity Level (SIL) according to IEC 62061	3
ISO 13849	
performance level (PL) according to ISO 13849-1	e
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	3
PFHD with high demand rate according to IEC 61508	4.8E-9 1/h
PFDavg with low demand rate according to IEC 61508	5E-6
Safe failure fraction (SFF)	99 %
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, 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	Floor mounting
• of AS-i slaves	Floor mounting
height	54.6 mm
width	25.9 mm
depth	36.7 mm
Approvals Certificates	
General Product Approval	EMV



[Confirmation](#)



Functional Safety	Test Certificates	other	Environment
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[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)



Siemens EcoTech



Environment	Industrial Communication
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[Environmental Conformations](#)



Further information

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=3SU1401-2EE20-6AA0>

Cax online generator

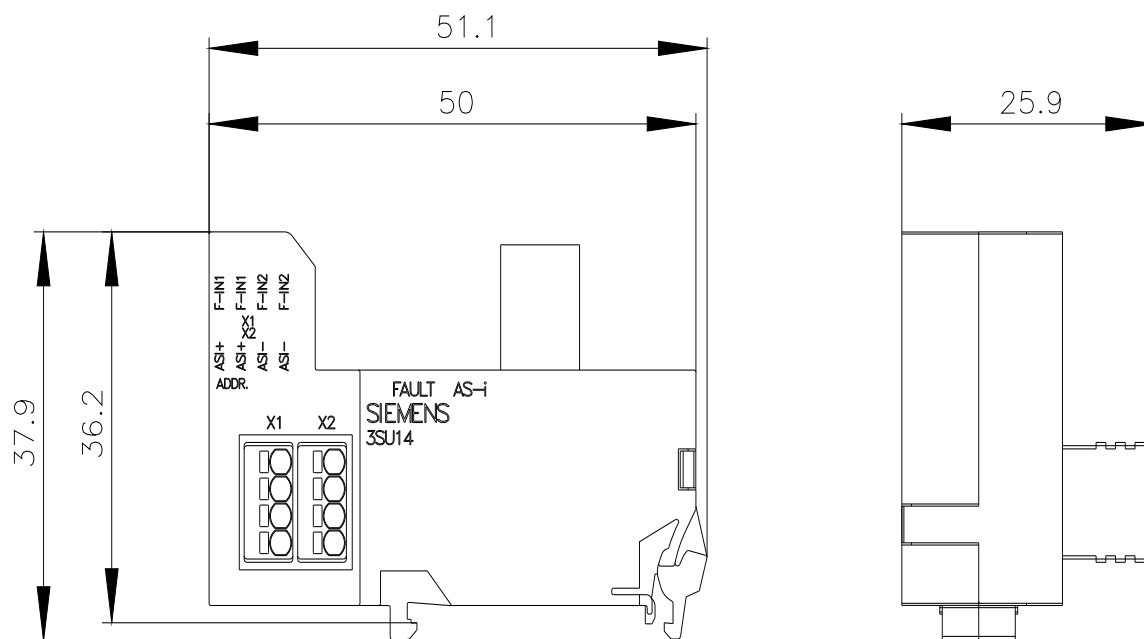
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-2EE20-6AA0>

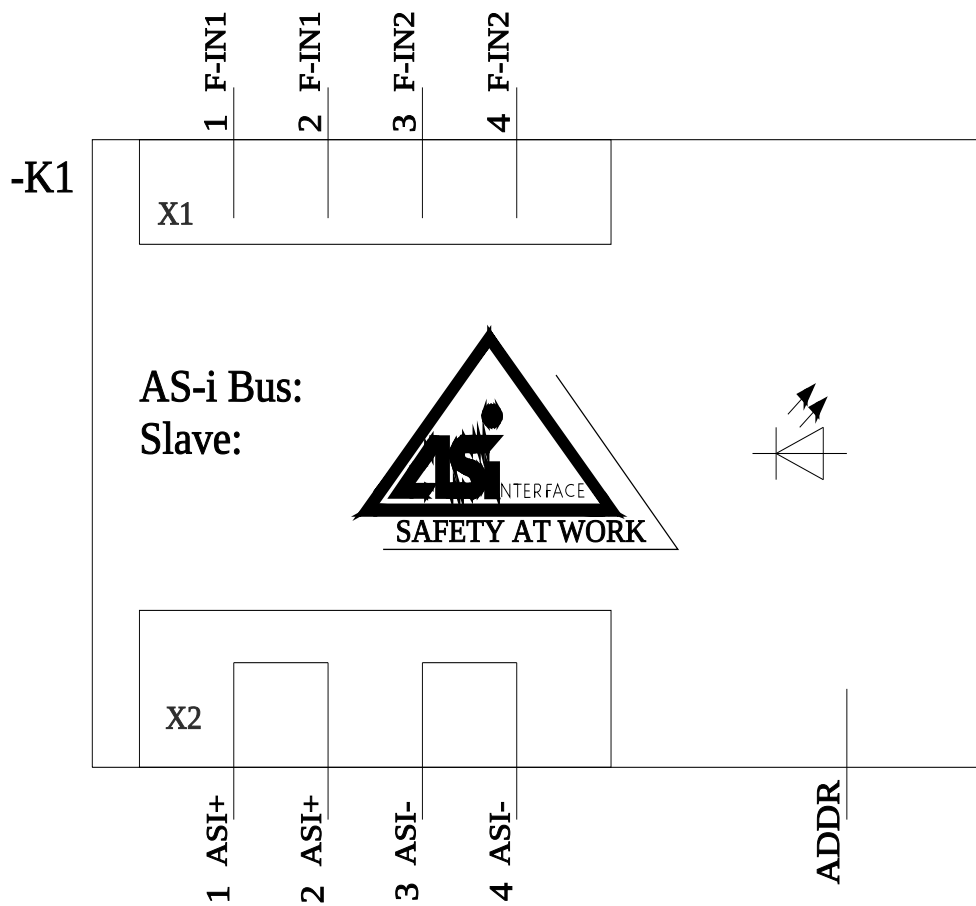
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<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, ...)

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





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