



AS-Interface module, 2 safe inputs, 1 LED, red, 4-pole connector with screw terminal and 4-pole connector with spring-type terminal, for front plate 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, clamping screw tightened
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
design of the slave type	2 F-DI + 1 LED
AS-Interface slave profile	S-7.B.F
ID1 code	1...F
number of AS-i slaves	1
protocol is supported ASIsafe (Safety at work) protocol	Yes
operating voltage rated value	26.5 ... 31.6 V
operating voltage 1 at DC rated value	30 V
Communication/ Protocol	
protocol is supported AS-Interface protocol	Yes
Inputs/ Outputs	
number of digital inputs	
• safety-related	2
number of digital outputs	1; For controlling the LED
Connections/ Terminals	
type of electrical connection	Screw connection + spring-type terminal
type of connectable conductor cross-sections	
• solid without core end processing	1x (0.2 ... 2.5 mm ²)
• finely stranded with core end processing	1x (0.25 ... 2.5 mm ²)
• finely stranded without core end processing	1x (0.2 ... 2.5 mm ²)
• at AWG cables	1x (30 ... 12)
tightening torque with screw-type terminals	0.5 ... 0.6 N·m
Lamp	
color of the light source	red
Product Function	

suitability for use safety-related circuits	Yes
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Safety related data

Safety Integrity Level (SIL) according to IEC 61508	3
SIL Claim Limit (subsystem) according to EN 62061	SILCL 3
performance level (PL) according to EN ISO 13849-1	e
Safe failure fraction (SFF)	99 %
average diagnostic coverage level (DCavg)	99 %
PFHD with high demand rate according to EN 62061	0.0000000045 1/h
PFDavg with low demand rate according to IEC 61508	0.000005
category according to EN 954-1	4

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)

Installation/ mounting/ dimensions

fastening method	
• of modules and accessories	Front plate mounting
• of AS-i slaves	Frontplattenbefestigung
height	42 mm
width	30 mm
depth	66.9 mm

Certificates/ approvals

General Product Approval	EMC	Functional Safety/Safety of Machinery	Declaration of Conformity
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[Confirmation](#)



[Type Examination Certificate](#)



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

[Special Test Certificate](#)



[Environmental Confirmations](#)

[Confirmation](#)

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=3SU1401-1EE20-2AA0>

Cax online generator

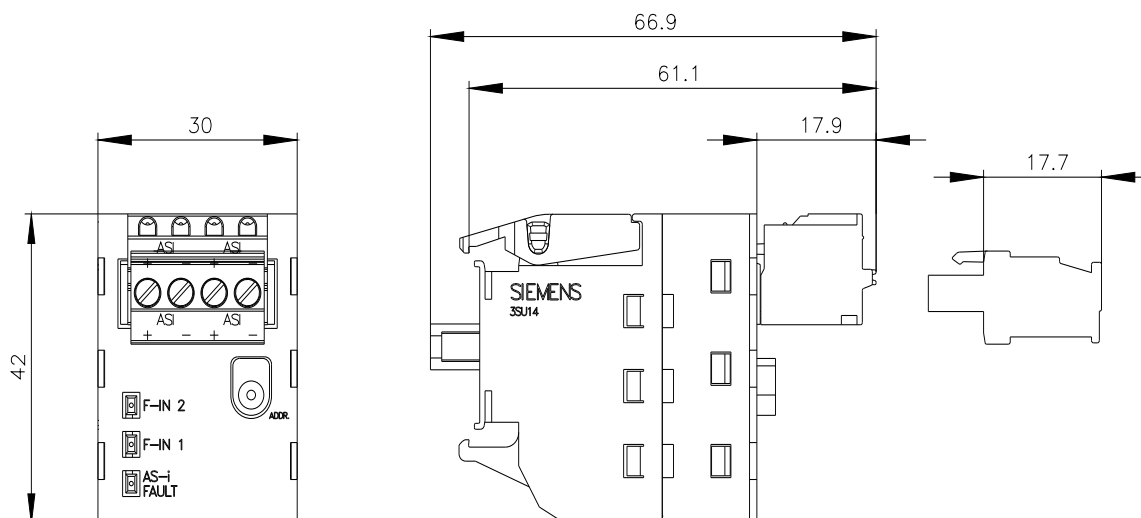
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-1EE20-2AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1EE20-2AA0>

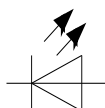
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-1EE20-2AA0&lang=en



-K1

AS-i Bus:
Slave:

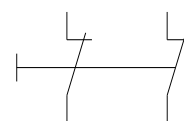


☐ F-IN1

☐ F-IN2

☐ AS-i Fault

Logic



1 ASI+

2 ASI-

3 ASI+

4 ASI-

ADDR

last modified:

1/27/2022

