



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 Prohibittance (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)
• for 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	

product function suitable for safety function	Yes		
suitability for use safety-related circuits	Yes		
Safety related data			
Safety Integrity Level (SIL)			
• according to IEC 62061	3		
• according to IEC 61508	3		
SIL Claim Limit (subsystem) according to EN 62061	SILCL 3		
performance level (PL) according to ISO 13849-1	e		
Safe failure fraction (SFF)	99 %		
average diagnostic coverage level (DCavg)	99 %		
PFHD with high demand rate according to IEC 61508	4.5E-9 1/h		
PFDavg with low demand rate according to IEC 61508	5E-6		
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

[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=3SU1401-1EE20-2AA0>

Cax online generator

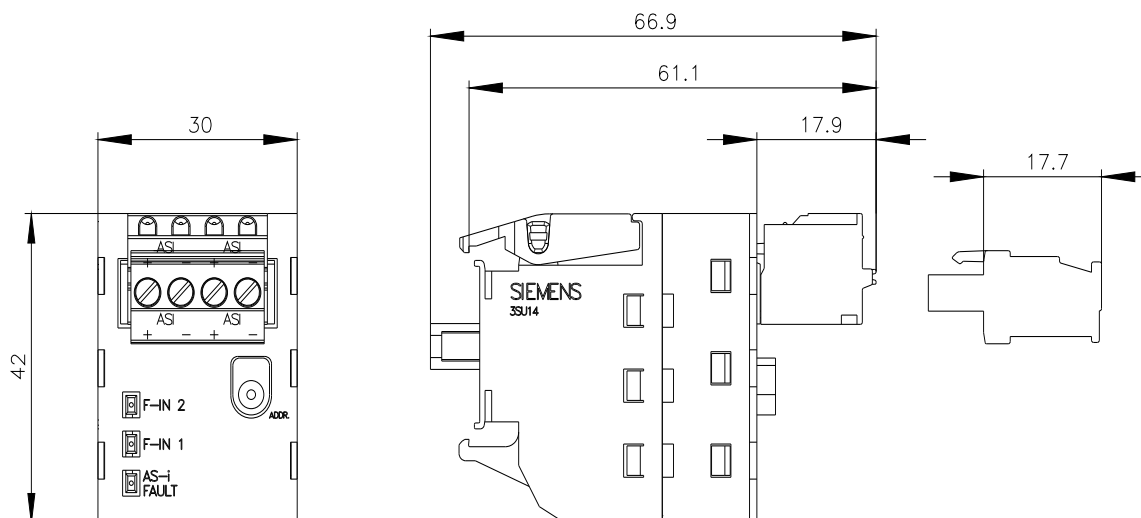
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-1EE20-2AA0>

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

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

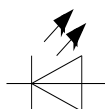
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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



-K1

AS-i Bus:
Slave:

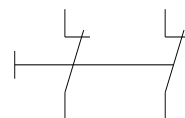


☐ F-IN1

☐ F-IN2

☐ AS-i Fault

Logic



1 ASI+

2 ASI-

3 ASI+

4 ASI-

ADDR

