



AS-Interface module, 2 safe inputs, 1 output, black, 4-pole connector with screw terminal, 2-pole 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 DQ
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 Prohibition (Date)	10/01/2014
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
design of the slave type	2 F-DI + 1 DQ
AS-Interface slave profile	S-7.B.F
ID1 code	0...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; Unrestricted
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
Product Function	
product function suitable for safety function	Yes

suitability for use safety-related circuits	Yes
Safety related data	
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
PF Davg with low demand rate according to IEC 61508	5E-6
PFHD with high demand rate according to IEC 61508	4.5E-9 1/h
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, 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
Installation/ mounting/ dimensions	
fastening method	
• of modules and accessories	Front plate mounting
• of AS-i slaves	Frontplattenbefestigung
height	42 mm
width	30 mm
depth	65.5 mm

Approvals Certificates			
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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[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



[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>

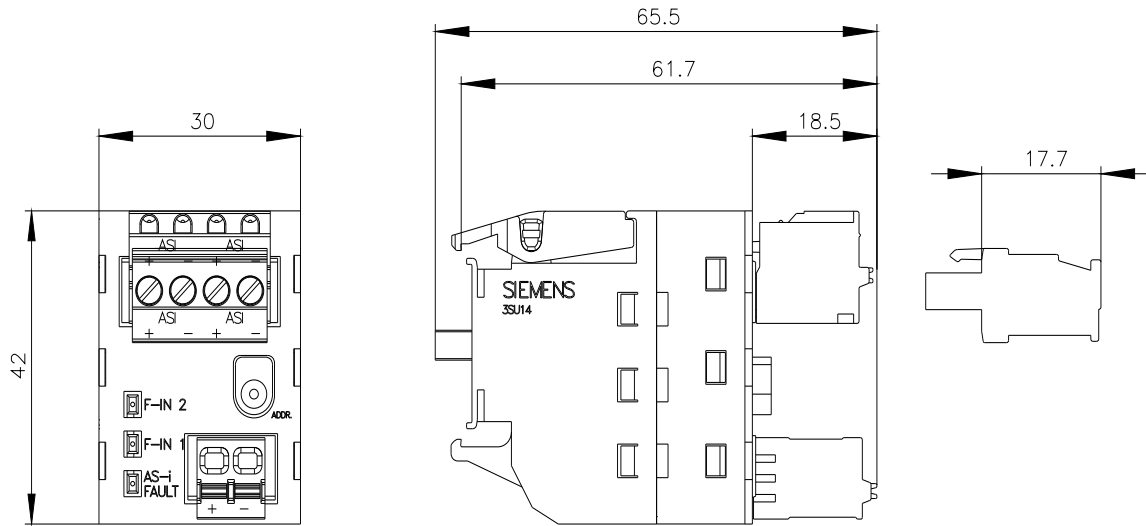
Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mifb=3SU1400-1EC10-2AA0>

Cax online generator



-K1

AS-i Bus:
Slave:



F-IN1

F-IN2

AS-i Fault **Logic**

A schematic symbol for a normally open contact, consisting of two vertical lines connected by a horizontal line at the top, with a diagonal slash through the horizontal line.

1 ASI+

2 ASI-

3 ASI+

4 ASI-

+

-

ADDR

last modified:

11/8/2023