



AS-Interface module, 2 safe inputs, black, 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
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
AS-Interface slave profile	S-0.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
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
Product Function	
suitability for use safety-related circuits	Yes

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 category according to EN 954-1	0.000005 4

Ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during storage 	-25 ... +70 °C -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)

Installation/ mounting/ dimensions	
fastening method	
<ul style="list-style-type: none"> of modules and accessories of AS-i slaves 	Front plate mounting Frontplattenbefestigung
height	42 mm
width	30 mm
depth	65.5 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
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[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



[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=3SU1400-1EA10-2AA0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1EA10-2AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1EA10-2AA0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1EA10-2AA0&lang=en

-K1

AS-i Bus:
Slave:



F-IN1

F-IN2

AS-i Fault **Logic**

A schematic symbol for a normally open contact, consisting of a horizontal line with two short vertical lines extending upwards from its ends.

1 ASI+

2 ASI-

3 ASI+

4 ASI-

ADDR

last modified:

12/16/2020