



AS-Interface module, 2 safe inputs, 1 output, black, insulation displacement system and 2-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
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 (day/month/year)	10/01/2014
SVHC substance name	Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 Diboron trioxide CAS-No. 1303-86-2
Net Weight	50.38 g
design of the device type	2 F-DI + 1 DQ
AS-Interface device profile	S-7.B.F
ID1 code	0...F
number of AS-i devices	1
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
• ASIsafe (Safety at work) protocol	Yes
Inputs/ Outputs	
number of digital inputs	
• safety-related	2
number of digital outputs	1; Unrestricted
Connections/ Terminals	

type of electrical connection	spring-loaded terminal + insulation displacement method
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 ... 1.5 mm ²)
• finely stranded without core end processing	1x (0.22 ... 1.5 mm ²)
• for AWG cables	1x (24 ... 16)
Product Function	
suitability for use safety-related circuits	Yes
Safety related data	
product function suitable for safety function	Yes
safe state	off
test wear-related service life necessary	No
category according to EN 954-1	4
average diagnostic coverage level (DCavg)	99 %
IEC 62061	
Safety Integrity Level (SIL) according to IEC 62061	SIL 3
PFHD with high demand rate according to IEC 62061	4.5E-9 1/h
ISO 13849	
performance level (PL) according to ISO 13849-1	PL e
category according to ISO 13849-1	4
device type according to ISO 13849-1	1
IEC 61508	
Safety Integrity Level (SIL)	
• according to IEC 61508	SIL 3
safety device type according to IEC 61508-2	Type B
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
Safe failure fraction (SFF)	99 %
hardware fault tolerance according to IEC 61508	1
T1 value of service life according to IEC 61508	20 a
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)
Installation/ mounting/ dimensions	
fastening method	
• of modules and accessories	Front plate mounting
• of the AS-i devices	Frontplattenbefestigung
height	42 mm
width	30 mm
depth	65.5 mm
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
Approvals Certificates	
Environmental Product Declaration	
• 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	-0.0145 kg
• global warming potential [CO2 eq] / total	0.787 kg
Environment	General Product Approval

[Environmental Con-
firmations](#)



General Product Ap- proval	EMV	Test Certificates	Maritime application
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[Type Test Certific-
ates/Test Report](#)

[Special Test Certific-
ate](#)



Maritime application	other	Industrial Commu- nication
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[Confirmation](#)



Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3SU1400-1EC10-4AA0>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1400-1EC10-4AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1EC10-4AA0>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1EC10-4AA0&lang=en



