



ASIsafe SlimLine Compact module SC17.5F digital safety 2 F-DI/2 DQ, IP20 2 x input for mechanical sensors 2 x standard output 24 V DC Output supply can be switched spring-type terminals Width 17.5 mm

<b>product designation</b>	Slimline Compact I/O module for use in the control cabinet
<b>design of the product</b>	AS-i SC17.5F, 2F-DI/2DQ
<b>product type designation</b>	3RK1
<b>design of the slave type</b>	standard slave
<b>AS-Interface slave profile</b>	S-7.B.F
<b>ID1 code</b>	F; Factory setting, changeable
<b>operating voltage according to AS-Interface specification</b>	18 ... 31.6 V
<b>product function suitable for AS-i Power24V</b>	Yes
<b>consumed current from profile conductors of the AS-Interface</b>	
• at 30 V maximum	270 mA
• at 24 V with AS-i Power24V maximum	270 mA
<b>type of address setting of AS-i slaves</b>	via front addressing socket
<b>Substance Prohibitance (Date)</b>	05/01/2012
<b>SVHC substance name</b>	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1
<b>Weight</b>	0.165 kg
<b>reference code</b>	
• according to EN 61346-2	K
• according to DIN 40719 extended according to IEC 204-2 according to IEC 750	A
<b>shock resistance</b>	15g / 11 ms (modules) or 10g / 11 ms (modules with device connector)
<b>other information</b>	An auxiliary external feed (AUX POWER) of between 20 and 30 V DC is necessary for supplying the output circuits. The auxiliary feed must comply with IEC 60990 (PELV), protection class III.
<b>Digital Inputs</b>	
<b>number of digital inputs</b>	0
<b>number of digital inputs safety-related</b>	2
<b>type of input characteristic</b>	mechanical contacts
<b>Digital Outputs</b>	
<b>number of digital outputs</b>	2
<b>type of switching output</b>	PNP transistor
<b>product function for power supply reverse polarity protection</b>	Yes
<b>property of the output short-circuit proof</b>	Yes
<b>product function</b>	Built-in induction protection
<b>total current of digital outputs per module maximum</b>	0.5 A
• note	0.2 A with supply via AS interface / 0.5 A with supply via Uaux
<b>type of voltage supply at the outputs</b>	AS interface / U_AUX switchable
<b>ampacity of the semiconductor output at DC-13 at 24 V</b>	0.5 A; 0.15 A with supply via AS interface / 0.5 A with supply via Uaux
<b>Analog inputs</b>	

<b>number of analog inputs</b>	0
<b>Analog outputs</b>	
<b>number of analog outputs</b>	0
IEC 62061	
PFHD with high demand rate according to IEC 62061	4.5E-9 1/h
ISO 13849	
performance level (PL) according to EN ISO 13849-1	e
category according to EN ISO 13849-1	up to Category 4
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	3
PFDavg with low demand rate according to IEC 61508	5E-6
<b>Safe failure fraction (SFF)</b>	99 %
T1 value for proof test interval or service life according to IEC 61508	20 a

<b>Device connector</b>	
<b>ampacity of the interface to the device connector</b>	
<ul style="list-style-type: none"> <li>for AS-Interface</li> </ul>	2 A
<ul style="list-style-type: none"> <li>for external auxiliary voltage</li> </ul>	4 A

<b>Installation/ mounting/ dimensions</b>	
<b>fastening method</b>	screw and snap-on mounting
<b>height</b>	100 mm
<b>width</b>	17.5 mm
<b>depth</b>	120 mm

<b>Ambient conditions</b>	
<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-25 ... +70 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +85 °C

<b>Connections/ Terminals</b>	
type of electrical connection of the inputs and outputs	spring-loaded terminal (push-in)
<b>type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>solid</li> </ul>	1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>finely stranded with core end processing</li> </ul>	1x (0,25 ... 1,0 mm <sup>2</sup> ), 2x (0,25 ... 1,0 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>finely stranded without core end processing</li> </ul>	1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>for AWG cables solid</li> </ul>	1x (20 ... 16), 2x (20 ... 16)
<ul style="list-style-type: none"> <li>for AWG cables stranded</li> </ul>	1x (20 ... 16), 2x (20 ... 16)

<b>Approvals Certificates</b>			
General Product Approval	EMV	Test Certificates	



[Type Test Certificates/Test Report](#)

<b>Maritime application</b>	other
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[Confirmation](#)

<b>Environment</b>	<b>Industrial Communication</b>
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[Environmental Confirmations](#)



**Further information**

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).

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

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=3RK1405-2BG00-2AA2>

Cax online generator

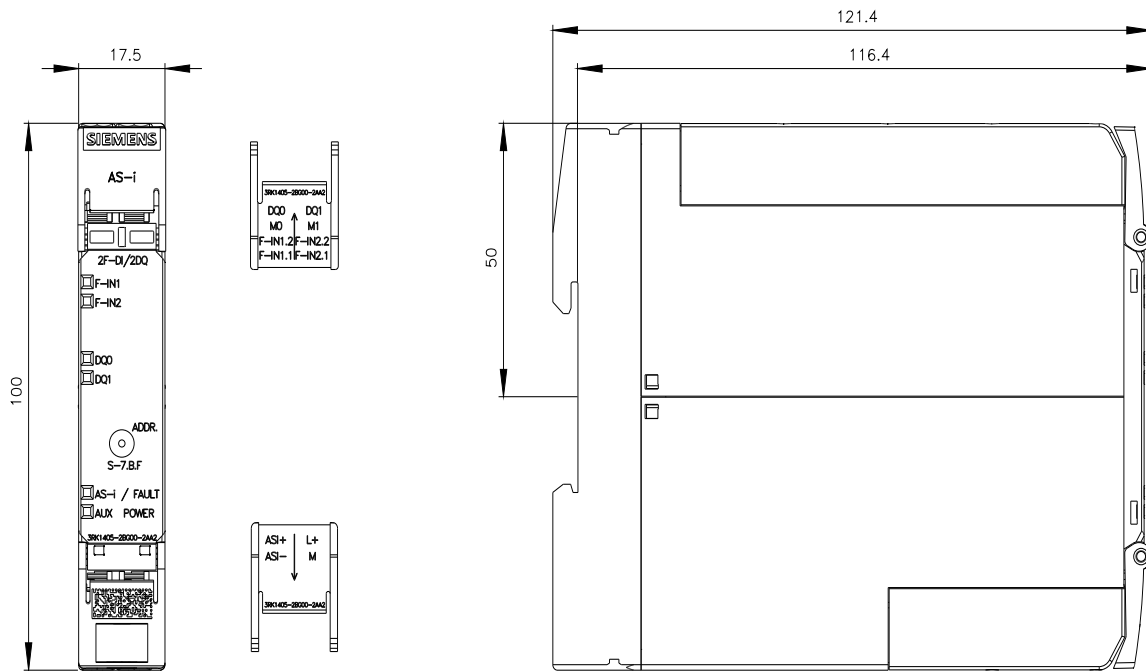
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1405-2BG00-2AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1405-2BG00-2AA2>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1405-2BG00-2AA2&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1405-2BG00-2AA2&lang=en)



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**SIEMENS**

AS-i Bus:  
Slave:



- F-IN1
- F-IN2
  
- DQ0
- DQ1
  
- AS-i / FAULT
- AUX POWER

L+

F-IN1.1

F-IN1.2

F-IN2.1

F-IN2.2

AS-i-

AS-i+

M

DQ0

M0

DQ1

M1

ADDR

last modified:

9/6/2025 ↻