



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 Screw terminals Overall width 17.5 mm

product designation	Slimline Compact I/O module for use in the control cabinet
design of the product	AS-i SC17.5F, 2F-DI/2DQ
General technical data	
protection class IP	IP20
design of the slave type	standard slave
AS-Interface slave profile	S-7.B.F
ID1 code	F; Factory setting, changeable
operating voltage according to AS-Interface specification	18 ... 31.6 V
product function suitable for AS-i Power24V	Yes
protocol is supported AS-Interface protocol	Yes
consumed current from profile conductors of the AS-Interface	
• at 30 V maximum	270 mA
• at 24 V with AS-i Power24V maximum	270 mA
type of address setting of AS-i slaves	via front addressing socket
display version	
• as status display of the inputs/outputs	LED yellow/red
• for AS-Interface	LED green/red
reference code	
• according to EN 61346-2	K
• according to DIN 40719 extended according to IEC 204-2 according to IEC 750	A
shock resistance	15g / 11 ms (modules) or 10g / 11 ms (modules with device connector)
other information	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.
Digital Inputs	
number of digital inputs	0
number of digital inputs safety-related	2
type of input characteristic	mechanical contacts
Digital Outputs	
number of digital outputs	2
type of switching output	PNP transistor
product function for power supply reverse polarity protection	Yes
property of the output short-circuit proof	Yes
product function	Built-in induction protection
total current of digital outputs per module maximum	0.5 A
• note	0.2 A with supply via AS interface / 0.5 A with supply via Uaux
type of voltage supply at the outputs	AS interface / U_AUX switchable
ampacity of the semiconductor output at DC-13 at 24 V	0.5 A; 0.15 A with supply via AS interface / 0.5 A with supply via Uaux

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

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

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

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

Connections/ Terminals	
type of electrical connection of the inputs and outputs	Screw terminals
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> solid 	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)
<ul style="list-style-type: none"> finely stranded with core end processing 	1x (0.25 ... 2.5 mm ²), 2x (0.25 ... 1.0 mm ²)
<ul style="list-style-type: none"> finely stranded without core end processing 	Not permitted
<ul style="list-style-type: none"> for AWG cables solid 	1x (24 ... 14), 2x (24 ... 16)
<ul style="list-style-type: none"> for AWG cables stranded 	Not permitted

Certificates/ approvals		
General Product Approval	EMC	Functional Safety/Safety of Machinery

[Confirmation](#)



[Miscellaneous](#)

Declaration of Conformity	Test Certificates	Marine / Shipping
	Type Test Certificates/Test Report	

Marine / Shipping	other
	Confirmation

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- 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=3RK1405-2BE00-2AA2>

Cax online generator

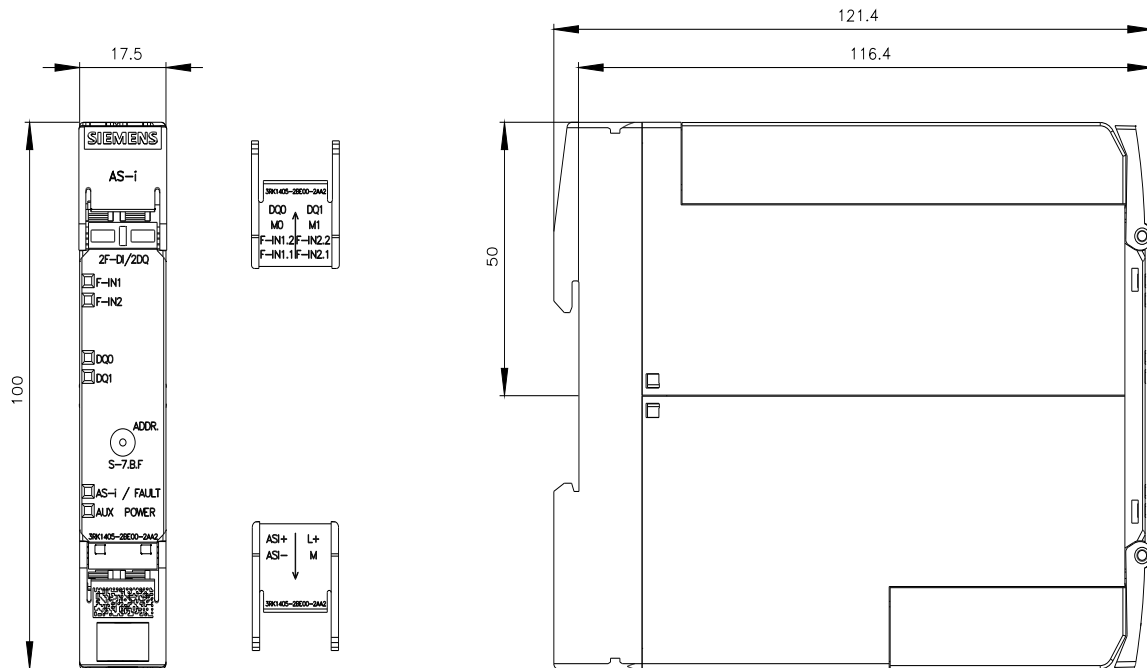
<http://support.automation.siemens.com/WWW/CAXorder/default.aspx?lang=en&mlfb=3RK1405-2BE00-2AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1405-2BE00-2AA2>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1405-2BE00-2AA2&lang=en



-K8

L+ | F-IN1.1 | F-IN1.2 | F-IN2.1 | F-IN2.2

SIEMENS

AS-i Bus:
Slave:



- F-IN1
- F-IN2

- DQ0
- DQ1

- AS-i / FAULT
- AUX POWER

AS-i- | AS-i+ | M | DQ0 | M0 | DQ1 | M1 | ADDR

last modified:

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