



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

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		0.0000000045 1/h	
PFDavg with low demand rate according to IEC 61508		0.000005	
T1 value for proof test interval or service life according to IEC 61508		20 y	
Device connector			
ampacity of the interface to the device connector			
• for AS-Interface		2 A	
• 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			
• during operation		-25 ... +70 °C	
• during storage		-40 ... +85 °C	
Connections/ Terminals			
type of electrical connection of the inputs and outputs		Spring-loaded terminals	
type of connectable conductor cross-sections			
• solid		1x (0.5 ... 1.5 mm²), 2x (0.5 ... 1.5 mm²)	
• finely stranded with core end processing		1x (0,25 ... 1,0 mm²), 2x (0,25 ... 1,0 mm²)	
• finely stranded without core end processing		1x (0.5 ... 1.5 mm²), 2x (0.5 ... 1.5 mm²)	
• at AWG cables solid		1x (20 ... 16), 2x (20 ... 16)	
• at AWG cables stranded		1x (20 ... 16), 2x (20 ... 16)	
Certificates/ approvals			
General Product Approval		EMC	Functional Safety/Safety of Machinery
 CSA Confirmation  UL   RCM Miscellaneous			
Declaration of Conformity	Test Certificates	Marine / Shipping	
 EG-Konf. Type Test Certificates/Test Report  ABS  LRS  PRS  RINA			
Marine / Shipping		other	



[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=3RK1405-2BG00-2AA2>

Cax online generator

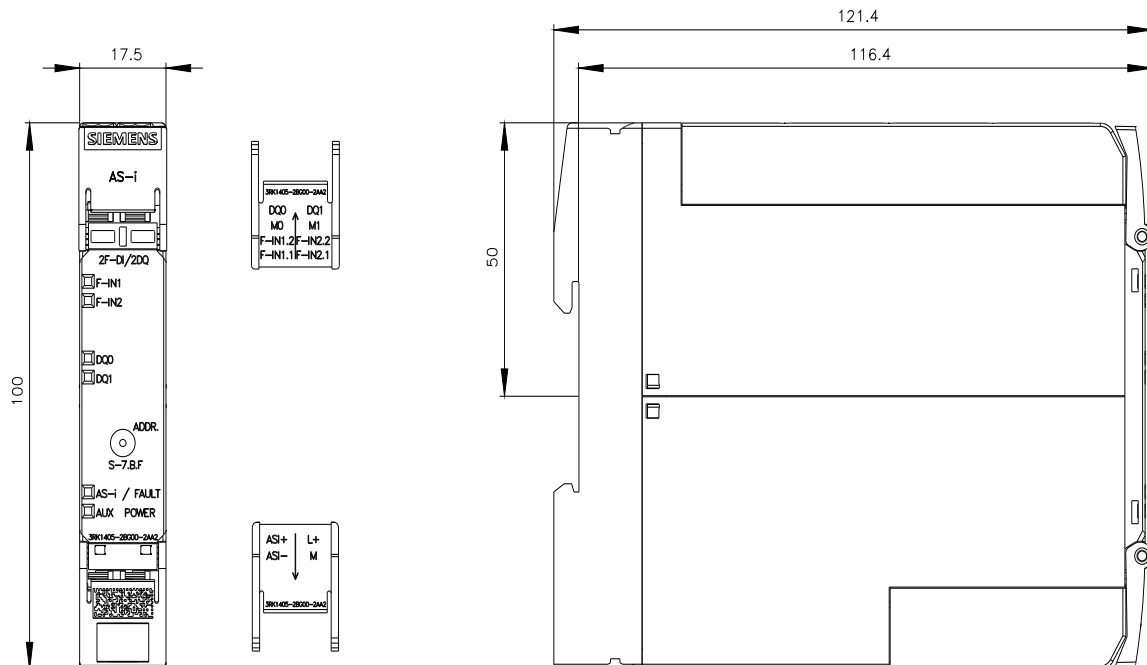
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1405-2BG00-2AA2>

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, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1405-2BG00-2AA2&lang=en



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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:

1/18/2021