

ASIsafe SlimLine Compact module SC17.5F digital safety 2 F-DI, IP20 2 x input for mechanical sensors spring-type 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
General technical data	
protection class IP	IP20
Design of the slave type	standard slave
AS interface slave profile	S-0.B.F
ID1 code	F; Factory setting, changeable
Operating voltage acc. 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	50 mA
• at 24 V with AS-i Power24V maximum	50 mA
Type of address setting of AS-i slaves	via front addressing socket
Display version	
• as status display of the inputs/outputs	Yellow LED
• for AS Interface	LED green/red
reference code	

<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 	K A
shock resistance	15g / 11 ms (modules) or 10g / 11 ms (modules with device connector)
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	0
Analog inputs	
number of analog inputs	0
Analog outputs	
number of analog outputs	0
Safety related data	
Safety Integrity Level (SIL) acc. to IEC 61508	3
performance level (PL) acc. to EN ISO 13849-1	e
category acc. to EN ISO 13849-1	up to Category 4
Safe failure fraction (SFF)	99 %
PFHD with high demand rate acc. to EN 62061	0.0000000045 1/h
PFDavg with low demand rate acc. to IEC 61508	0.000005
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Device connector	
Ampacity of the interface to the device connector <ul style="list-style-type: none"> • for AS Interface 	2 A
Installation/ mounting/ dimensions	
<ul style="list-style-type: none"> • mounting type 	screw and snap-on mounting
height	100 mm
width	17.5 mm
depth	120 mm
Ambient conditions	
<ul style="list-style-type: none"> • ambient temperature during operation • ambient temperature during storage 	-25 ... +70 °C -40 ... +85 °C
Connections/ Terminals	
type of electrical connection <ul style="list-style-type: none"> • of the inputs and outputs • type of connectable conductor cross-sections solid 	Spring-loaded terminals 1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 1.5 mm ²)

- Type of connectable conductor cross-sections finely stranded with core end processing
- Type of connectable conductor cross-sections finely stranded without core end processing
- Type of connectable conductor cross-sections at AWG conductors solid
- type of connectable conductor cross-sections at AWG conductors stranded

1x (0,25 ... 1,0 mm²), 2x (0,25 ... 1,0 mm²)

1x (0.5 ... 1.5 mm²), 2x (0.5 ... 1.5 mm²)

1x (20 ... 16), 2x (20 ... 16)

1x (20 ... 16), 2x (20 ... 16)

Certificates/ approvals

General Product Approval	EMC	Functional Safety/Safety of Machinery	Declaration of Conformity
--------------------------	-----	---------------------------------------	---------------------------



[Miscellaneous](#)



Declaration of Conformity	Test Certificates	Marine / Shipping
---------------------------	-------------------	-------------------

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



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=3RK1205-0BG00-2AA2>

Cax online generator

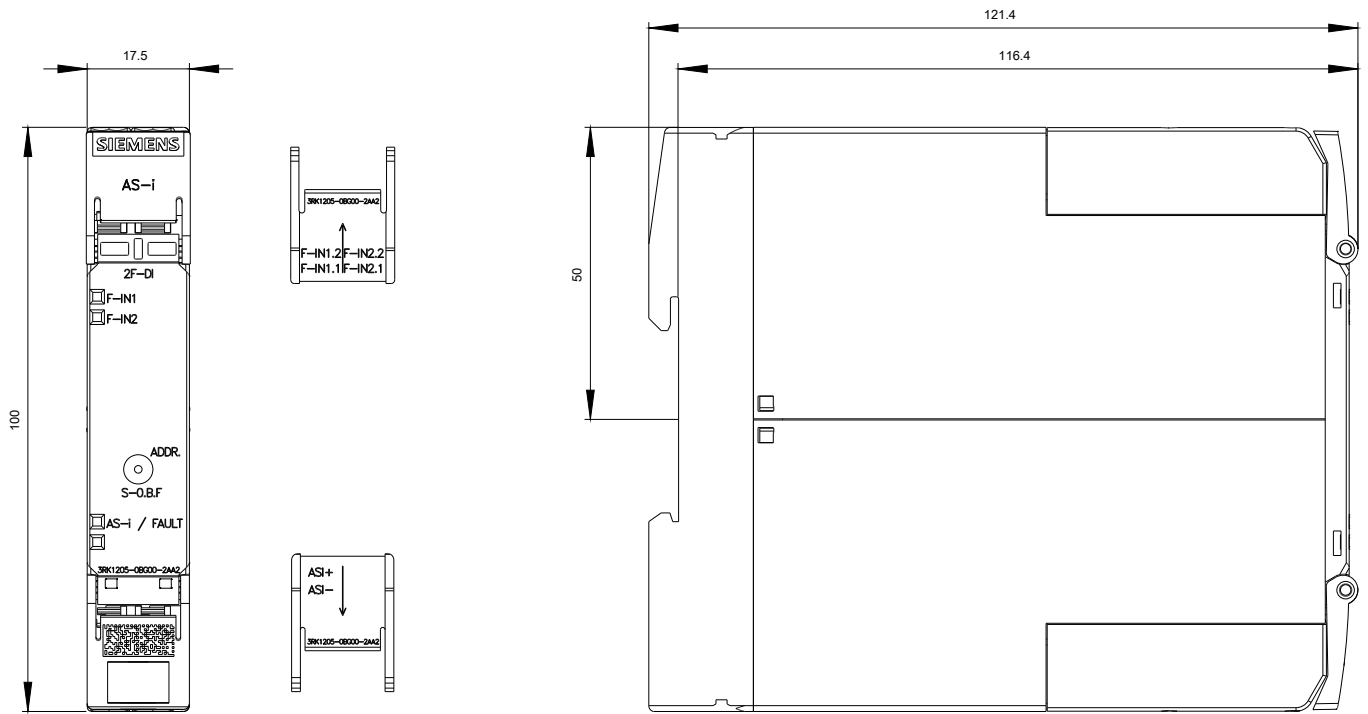
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1205-0BG00-2AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1205-0BG00-2AA2>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1205-0BG00-2AA2&lang=en



-K7

F-IN1.1

F-IN1.2

F-IN2.1

F-IN2.2

SIEMENS

AS-i Bus:

Slave:



F-IN1

F-IN2

AS-i / FAULT

AS-i

AS-i

ADDR

last modified:

09/24/2020