

AS-i SlimLine Compact module SC22.5, IP20, analog, 4AI-C/V
Screw terminals 4 x analog input Inputs switchable C/V Overall width 22.5 mm



product designation	Slimline Compact I/O module for use in the control cabinet
design of the product	AS-i SC22.5, 4AI PT100
General technical data	
protection class IP	IP20
Design of the slave type	standard slave
AS interface slave profile	S-7.3.E
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	200 mA
• at 24 V with AS-i Power24V maximum	250 mA
Type of address setting of AS-i slaves	via front addressing socket
Display version	
• for AS Interface	LED green/red
reference code	
• acc. to DIN EN 61346-2	K

<ul style="list-style-type: none"> • acc. to DIN 40719 extended according to IEC 204-2 acc. 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	0
type of connection	2- and 4-wire technology

Sensor supply	
Type of voltage supply for power supply	AS interface, alternatively U_AUX
Ampacity of the sensor supply for all inputs at ambient temperature 40 °C	500 mA
<ul style="list-style-type: none"> • Note 	46 mA with supply via AS interface / 500 mA with supply via Uaux
Property of the sensor supply Short-circuit and overload resistant	Yes

Digital Outputs	
number of digital outputs	0

Analog inputs	
number of analog inputs	4
Signal range at the analog input	4 ... 20 mA; +/- 20 mA; 1 ... 5 V; +/- 10 V
Consumed current from external auxiliary voltage maximum	500 mA
design of the sensor at the analog input is supported resistor temperature sensor	No
product function input variable parameterizable	Yes
A/D resolution for analog inputs/outputs	16 bit
product function smoothing parameterizable	Yes
setting values of the interference frequency for interference voltage suppression	50 / 60 Hz

Analog outputs	
number of analog outputs	0

Errors/ accuracies	
Relative symmetrical operational limit relating to input range/output range	1 %; full scale
Relative symmetrical basic error limit relating to input range/output range at 25 °C	0.7 %
symmetrical temperature error per K relating to input range/output range	0.01 %/K
relative symmetrical linearity error relating to input range/output range	0.05 %

Relative symmetrical repeat accuracy relating to input range/output range in settled state 25 °C	0.1 %
--	-------

Device connector

Ampacity of the interface to the device connector	
• for AS Interface	2 A
• for external auxiliary voltage	4 A

Installation/ mounting/ dimensions

• mounting type	screw and snap-on mounting
height	100 mm
width	22.5 mm
depth	120 mm

Ambient conditions

• ambient temperature during operation	-25 ... +70 °C
• ambient temperature during storage	-40 ... +85 °C

Connections/ Terminals

type of electrical connection	
• of the inputs and outputs	Screw terminals
• type of connectable conductor cross-sections solid	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)
• Type of connectable conductor cross-sections finely stranded with core end processing	1x (0.25 ... 2.5 mm ²), 2x (0.25 ... 1.0 mm ²)
• Type of connectable conductor cross-sections finely stranded without core end processing	Not permitted
• Type of connectable conductor cross-sections at AWG conductors solid	1x (20 ... 14), 2x (18 ... 16)
• type of connectable conductor cross-sections at AWG conductors stranded	Not permitted

Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity
--------------------------	-----	---------------------------



[Miscellaneous](#)

Test Certificates	Marine / Shipping
-------------------	-------------------

[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=3RK1207-0CE00-2AA2>

Cax online generator

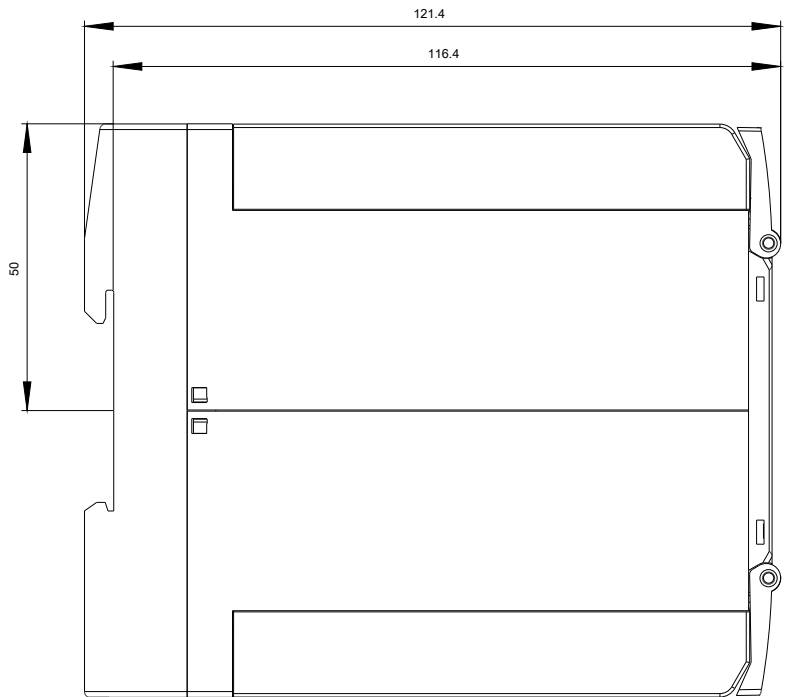
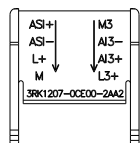
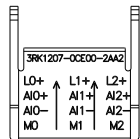
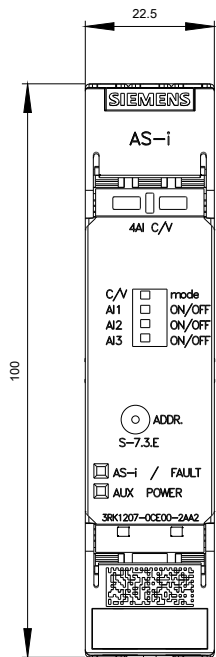
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1207-0CE00-2AA2>

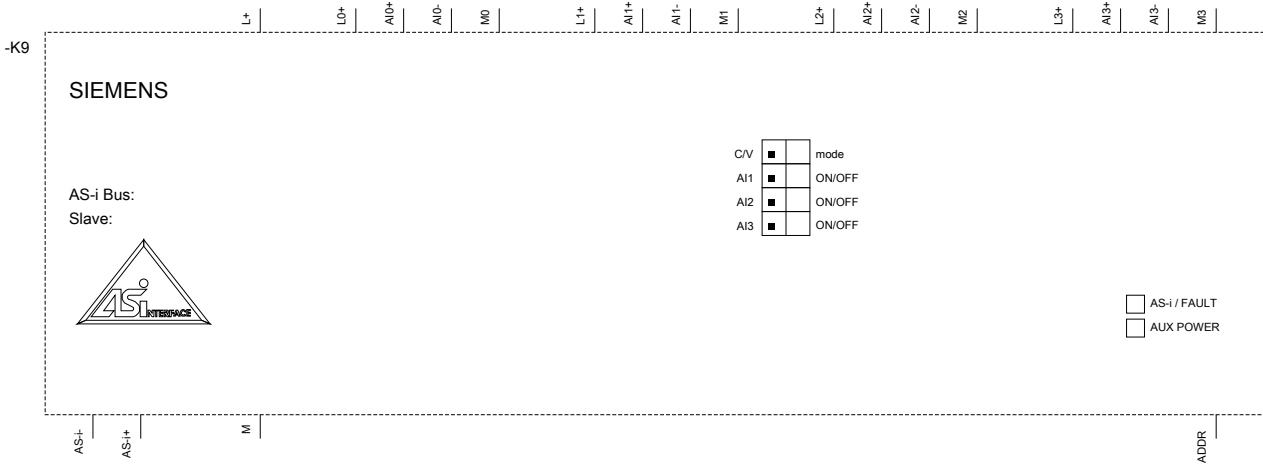
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1207-0CE00-2AA2>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1207-0CE00-2AA2&lang=en





last modified:

09/24/2020