

AS-i SlimLine Compact module SC22.5 digital, A/B slave 4 DI/4 DQ, IP20 4 x inputs for 3-wire sensor Sensor supply can be switched over 4 x output, 2 A, 24 V DC maximal 4 A for all outputs spring-type terminals 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, 4DI/4DQ A/B
General technical data	
Protection class IP	IP20
Design of the slave type	A/B slave (Spec. 3.0)
AS interface slave profile	S-7.A.7
ID1 code	7; Setting cannot be changed
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	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	

• 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)
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	4
Number of digital inputs safety-related	0
Type of input characteristic	PNP Type 2
Type of connection	2- and 3-wire technology

Sensor supply	
Type of voltage supply for power supply	AS-Interface / U_AUX switchable
Ampacity of the sensor supply for all inputs at ambient temperature 40 °C	500 mA
• Note	200 mA with supply via AS interface / 500 mA with supply via Uaux
Property of the sensor supply Short-circuit and overload resistant	Yes
Voltage drop at the sensor supply	
• from AS interface • from external auxiliary voltage	8.5 V 1 V

Digital Outputs	
Number of digital outputs	4
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	4 A
Type of voltage supply at the outputs	via AUX POWER
Ampacity of the semiconductor output at DC-13 at 24 V	2 A

Analog inputs	
Number of analog inputs	0

Analog outputs	
Number of analog outputs	0

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
• 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 mm ²), 2x (0.5 ... 1.5 mm ²)
• finely stranded with core end processing	1x (0.5 ... 1.0 mm ²), 2x (0.5 ... 1.0 mm ²)
• finely stranded without core end processing	1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 1.5 mm ²)
• at AWG conductors solid	1x (20 ... 16), 2x (20 ... 16)
• at AWG conductors stranded	1x (20 ... 16), 2x (20 ... 16)

Certificates/ approvals

General Product Approval			EMC	Declaration of Conformity	
 CSA	 UL	 EAC	 RCM	 EG-Konf.	Miscellaneous

Test Certificates	Marine / Shipping
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[Type Test Certificates/Test Report](#)



ABS



LRS



PRS



RMRS



DNVGL.COM/AF

other



ASI

[Confirmation](#)

[Miscellaneous](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2400-2CG00-2AA2>

Cax online generator

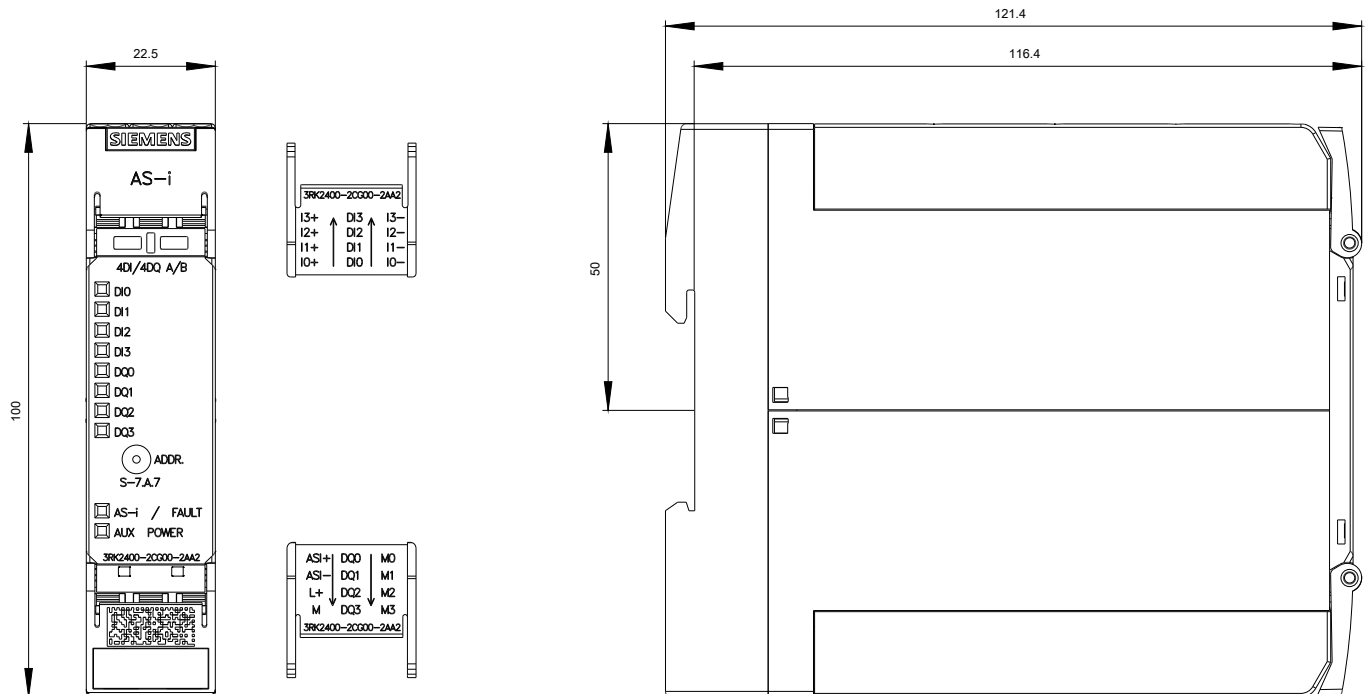
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-2CG00-2AA2>

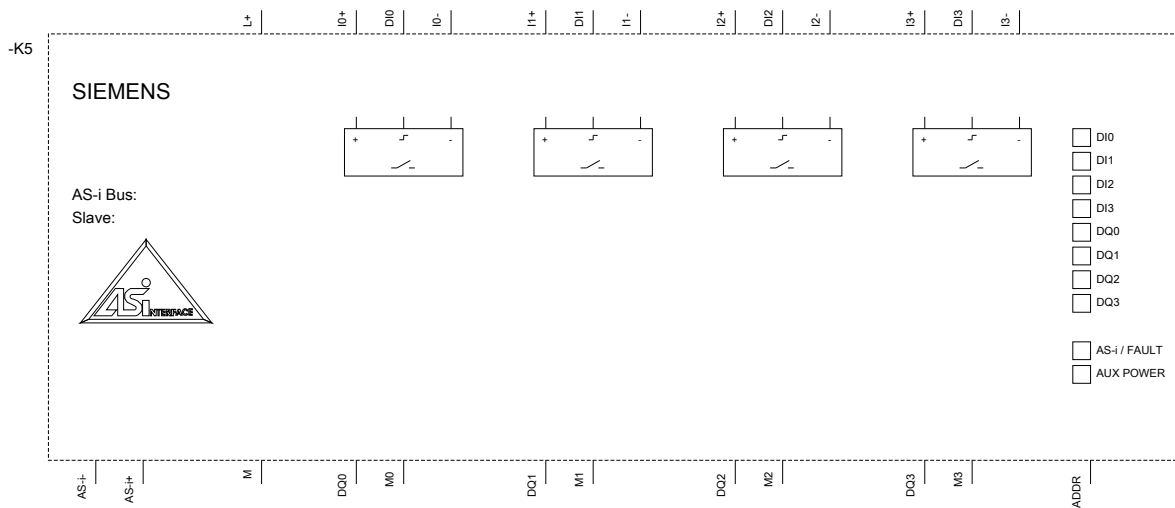
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-2CG00-2AA2>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-2CG00-2AA2&lang=en





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