



AS-i SlimLine Compact module SC22.5 digital 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, Standard
product type designation	3RK1
design of the device type	standard slave
AS-Interface device profile	S-7.0.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
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 the AS-i devices	via front addressing socket
Substance Prohibitance (day/month/year)	05/01/2012
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1 Diboron trioxide CAS-No. 1303-86-2
Net Weight	0.208 kg
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	15 g / 11 ms (modules) or 10 g / 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 technology	2- and 3-wire technology
Sensor supply	
type of voltage supply for sensor 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	8.5 V	
• from external auxiliary voltage	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		
fastening method	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 terminal (push-in)	
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)	
• for AWG cables solid	1x (20 ... 16), 2x (20 ... 16)	
• for AWG cables stranded	1x (20 ... 16), 2x (20 ... 16)	
Approvals Certificates		
Environment	General Product Approval	EMV
Environmental Confirmations     		
Test Certificates		
Maritime application		
Special Test Certificate Type Test Certificates/Test Report    		
other		
Industrial Communication		
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 for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RK1400-2CG00-2AA2>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1400-2CG00-2AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1400-2CG00-2AA2>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1400-2CG00-2AA2&lang=en



