SIEMENS

Data sheet 3RK1405-2BG00-2AA2



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
product type designation	3RK1
design of the device type	standard slave
AS-Interface device 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
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
Net Weight	0.139 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	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

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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
IEC 62061	
PFHD with high demand rate according to IEC 62061	4.5E-9 1/h
ISO 13849	
performance level (PL) according to EN ISO 13849-1	e
category according to EN ISO 13849-1	up to Category 4
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	3
PFDavg with low demand rate according to IEC 61508	5E-6
Safe failure fraction (SFF)	99 %
T1 value for proof test interval or service life according to IEC 61508	20 a
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 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	
General Product Approval	

Miscellaneous

Manufacturer Declaration

General Product Approval	EMV	For use in hazardous locations

China RoHS

For use in hazardous locations	Functional Saftey	Maritime application

Miscellaneous

CCC-Ex

TUEV

Type Examination Certificate

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Maritime application

NK / Nippon Kaiji Kyokai

KR (Korean Register of Shipping)

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

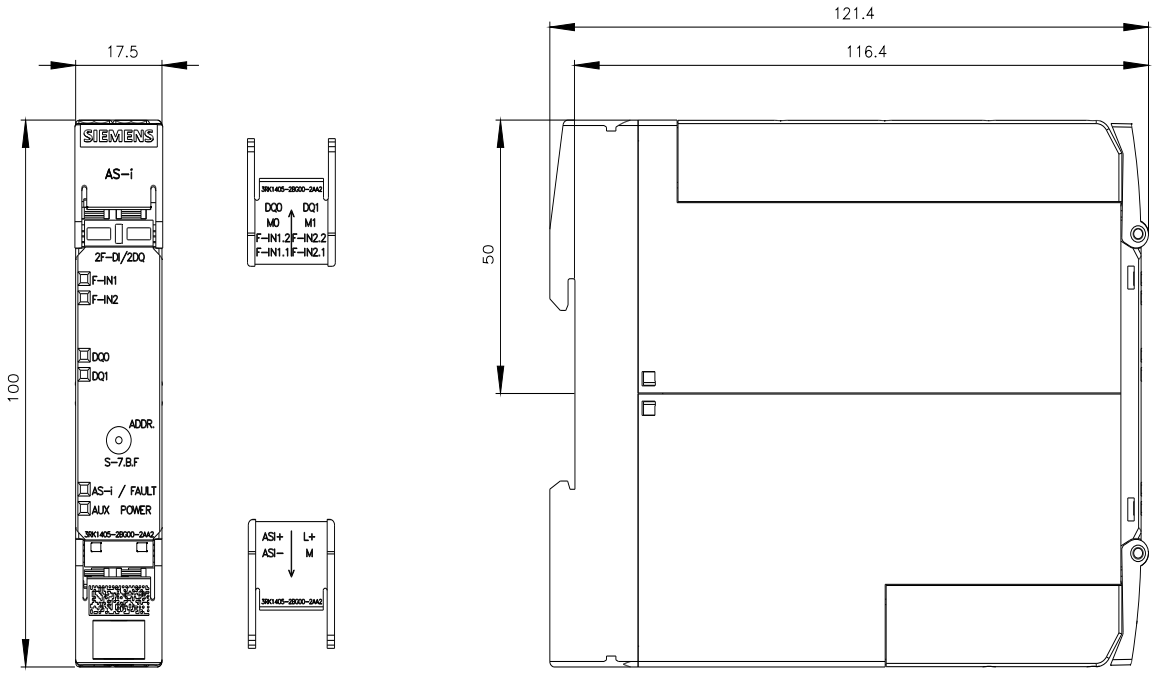
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1405-2BG00-2AA2

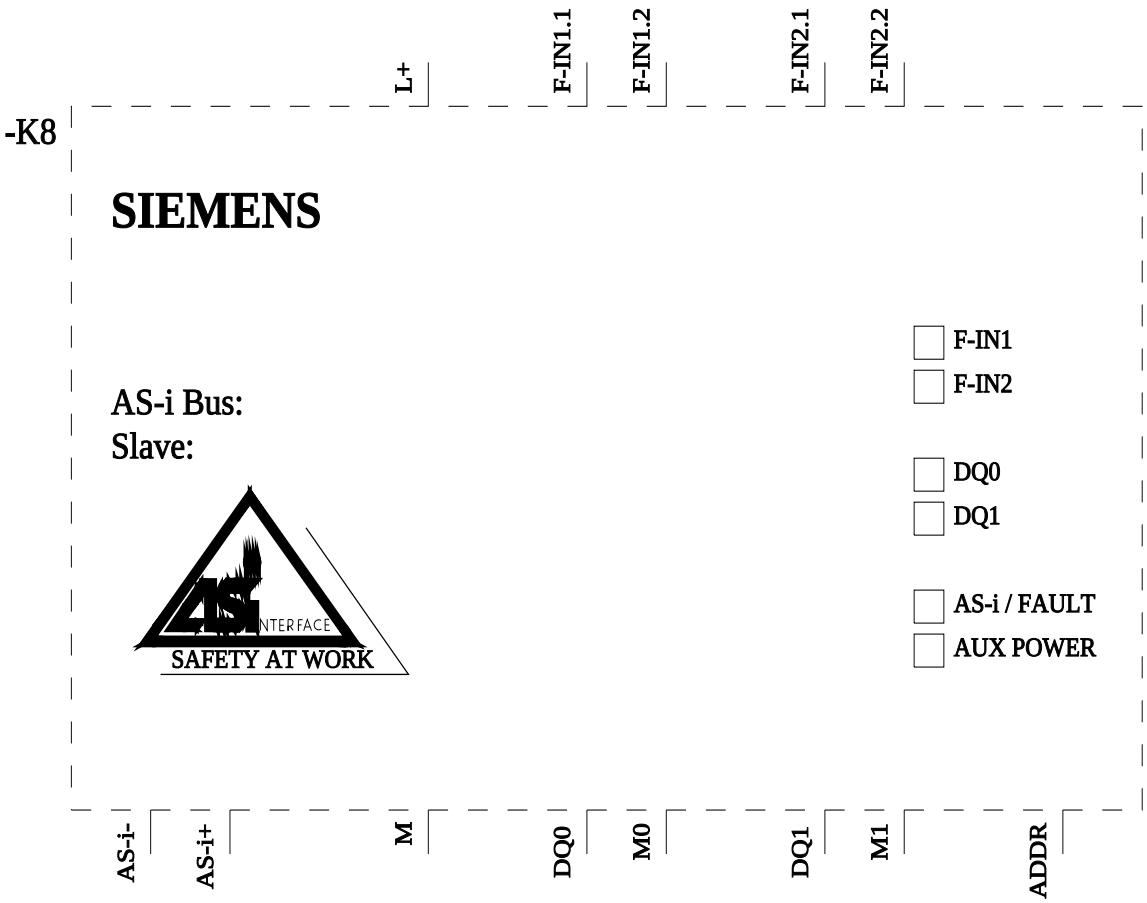
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1405-2BG00-2AA2

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



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