



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 Screw terminals Width 22.5 mm

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| 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 slave type | standard slave |
| AS-Interface slave 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 AS-i slaves | via front addressing socket |
| Substance Prohibitance (Date) | 05/01/2012 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 Diboron trioxide - 1303-86-2 |
| Weight | 0.236 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 | 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 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 | |

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|---|-------------------------------|
| 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

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|-------------------------|---|
| number of analog inputs | 0 |
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Analog outputs

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|--------------------------|---|
| number of analog outputs | 0 |
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Device connector

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| ampacity of the interface to the device connector | |
| <ul style="list-style-type: none"> for AS-Interface | 2 A |
| <ul style="list-style-type: none"> for external auxiliary voltage | 4 A |

Installation/ mounting/ dimensions

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| fastening method | screw and snap-on mounting |
| height | 100 mm |
| width | 22.5 mm |
| depth | 120 mm |

Ambient conditions

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| ambient temperature | |
| <ul style="list-style-type: none"> during operation | -25 ... +70 °C |
| <ul style="list-style-type: none"> during storage | -40 ... +85 °C |

Connections/ Terminals

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| type of electrical connection of the inputs and outputs | Screw terminals |
| type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> solid | 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²) |
| <ul style="list-style-type: none"> finely stranded with core end processing | 1x (0.25 ... 2.5 mm ²), 2x (0.25 ... 1.0 mm ²) |
| <ul style="list-style-type: none"> finely stranded without core end processing | Not permitted |
| <ul style="list-style-type: none"> for AWG cables solid | 1x (24 ... 14), 2x (24 ... 16) |
| <ul style="list-style-type: none"> for AWG cables stranded | Not permitted |

Approvals Certificates

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| General Product Approval | EMV | Test Certificates |
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| Test Certificates | Maritime application | other |
|-------------------|----------------------|-------|



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| other | Environment | Industrial Communication |
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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=3RK1400-2CE00-2AA2>

Cax online generator

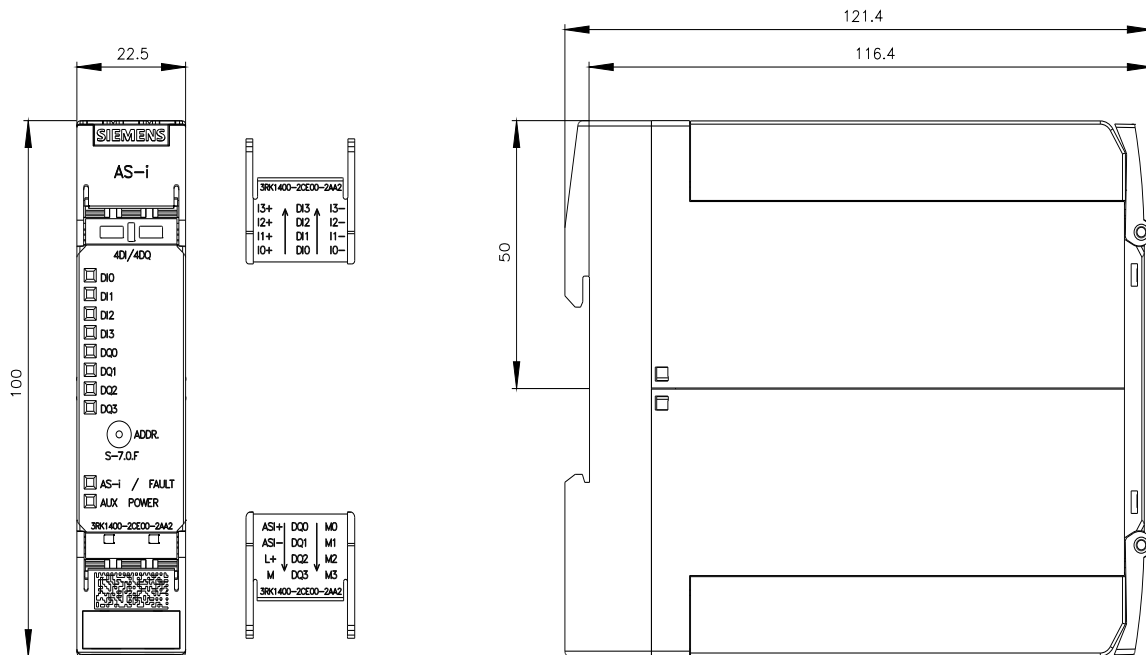
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1400-2CE00-2AA2>

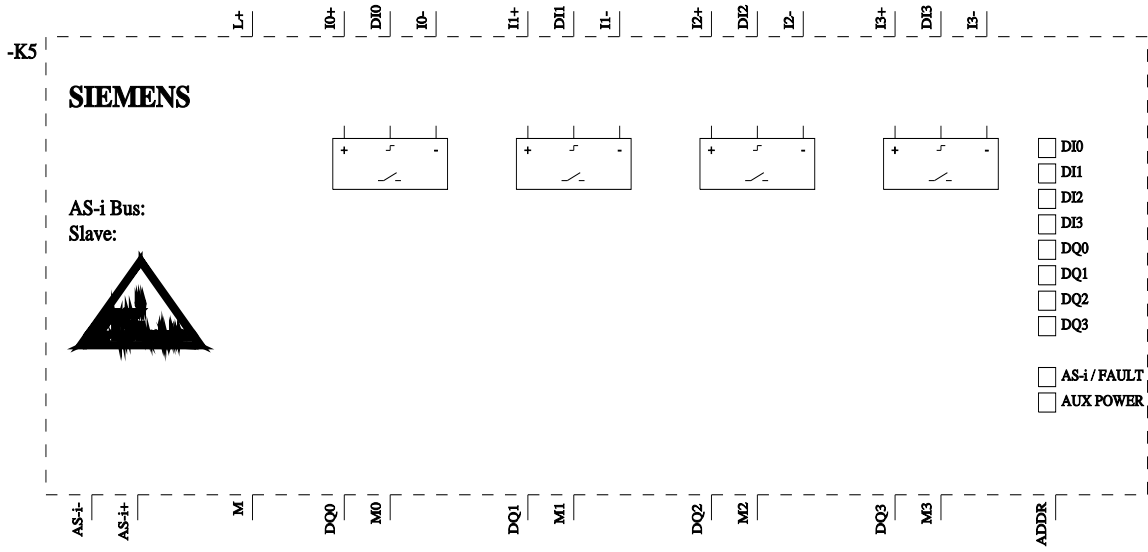
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1400-2CE00-2AA2>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1400-2CE00-2AA2&lang=en





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