

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 Screw terminals 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 | |

| | |
|---|--|
| <ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | <p>K</p> <p>A</p> |
| 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 |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • from AS interface • from external auxiliary voltage | <p>8.5 V</p> <p>1 V</p> |

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 | |
| <ul style="list-style-type: none"> • 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 |
|--------------------------|-----|---------------------------|



CSA



UL



RCM



EG-Konf.

[Miscellaneous](#)

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

[Type Test Certificates/Test Report](#)



ABS



LRS



PRS



RMRS



DNVGL.COM/AF

| |
|-------|
| other |
|-------|



ASi

[Confirmation](#)

[Miscellaneous](#)

| |
|---------------------|
| 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=3RK2400-2CE00-2AA2>

Cax online generator

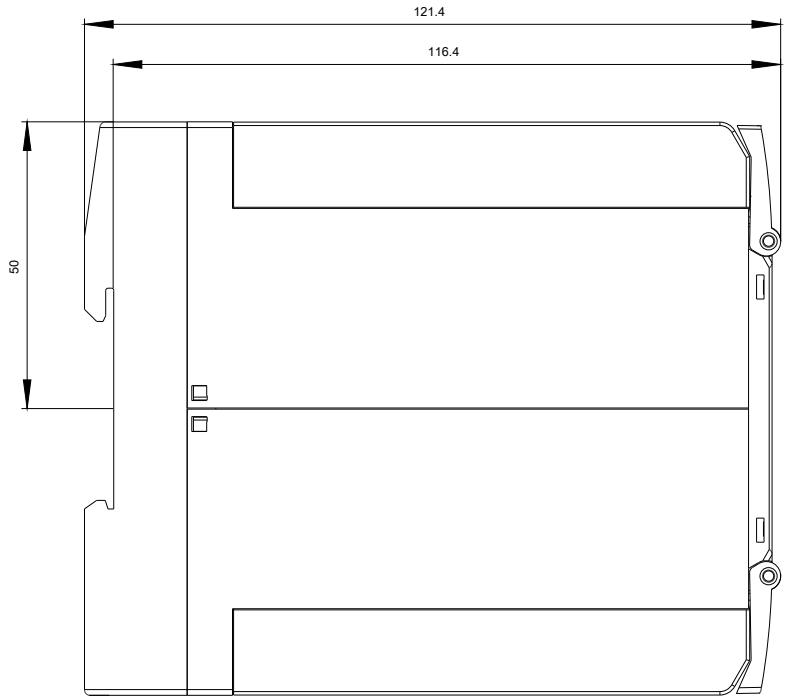
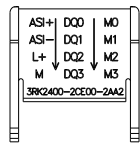
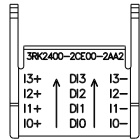
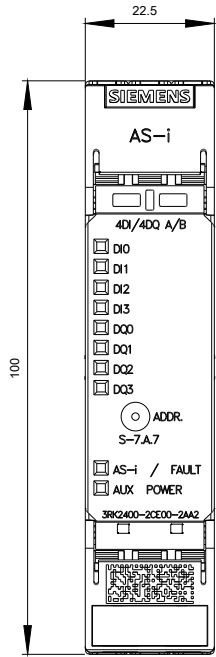
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-2CE00-2AA2>

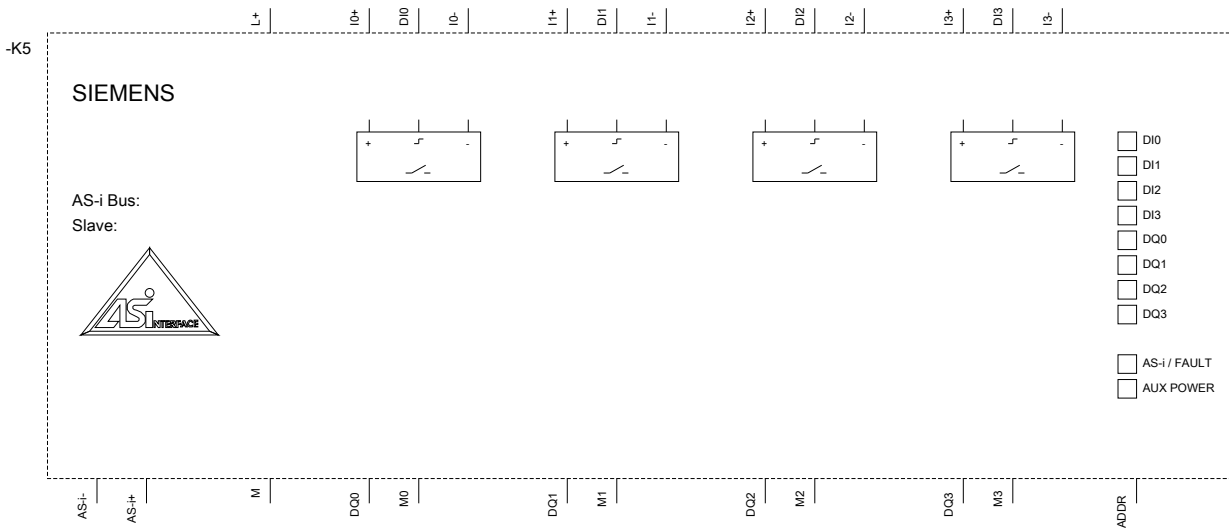
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-2CE00-2AA2>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-2CE00-2AA2&lang=en





last modified:

09/01/2020