

AS-i compact module K45 digital A/B slave 4 x (1 DI/1 DQ), IP67 4 x 1 input/1 output 4 x M12 socket Total current for all inputs and outputs max. 200 mA Supply I/O via U_ASI Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 is to be ordered separately

| General technical data | |
|---|--|
| design of the product | digital I/O modules for operation in the field, IP67 - K45 |
| Type | 4 x (1 input / 1 output) |
| design of the slave type | A/B slave (Spec. 3.0) |
| I/O configuration | 7 |
| ID/ID2 code | A/7 |
| Number I/O sockets | 4 |
| type of electrical connection of the inputs and outputs | M12 screw-type terminals |
| AS interface total current input max | 270 mA |
| Total current for all inputs and outputs | 200 mA |
| operating voltage according to AS-Interface specification | 26.5 ... 31.6 V |
| Ground terminal | Using PIN5 on the M12 sockets. Outgoing via flat tab sleeve (2.8 x 0.8 mm form A) |
| Addressing | front addressing socket |
| AS interface Connection Polarity reversal protection | built-in |
| Delivery note | the modules are delivered without mounting plate |
| Note 2 | The maximum current carrying capacity per module for all inputs and all outputs is 200 mA. |
| Sensor supply | |
| type of voltage supply for sensor supply | using AS-Interface |
| input voltage | 20 ... 30 V |
| property of the sensor supply short-circuit and overload resistant | Yes |
| ampacity of the sensor supply for all inputs | 200 mA |
| <ul style="list-style-type: none"> at ambient temperature 40 °C | |
| Inputs | |
| number of digital inputs | 4 |
| type of connection technology | 2- and 3-wire technology |
| Input circuit | PNP transistor |
| type of voltage of the input voltages | DC |
| Inputs switching level High min | 10 V |
| input current at digital input | |
| <ul style="list-style-type: none"> for signal <1> minimum | |
| 6 mA | |
| <ul style="list-style-type: none"> with signal <0> maximum | |
| 1.5 mA | |
| Inputs sensor supply using AS-Interface | short-circuit and overload resistant |
| Inputs socket assignment | |
| <ul style="list-style-type: none"> PIN 1 | |
| sensor supply L+ | |
| <ul style="list-style-type: none"> PIN 2 | |
| output | |
| <ul style="list-style-type: none"> PIN 3 | |
| sensor supply L- | |
| <ul style="list-style-type: none"> PIN 4 | |
| data input | |
| <ul style="list-style-type: none"> PIN 5 | |
| ground terminal | |

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|---|--|
| design of the pin assignment of the inputs | Y assignment |
| Outputs | |
| number of digital outputs | 4 |
| type of voltage of output voltages | DC |
| Outputs external power supply 24 V DC | not required |
| ampacity of the semiconductor output at DC-13 at 24 V | 0.2 A |
| Outputs aggregate current | |
| • max | 0.2 A |
| type of switching output | PNP transistor |
| design of the pin assignment of the outputs | Y assignment |
| Outputs socket assignment | 3 = "-", 2 = output, 5 = ground terminal |
| property of the output short-circuit proof | Yes |
| Outputs | |
| • short-circuit protection | built-in |
| • induction protection | built-in |
| • watchdog | built-in |

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| Display | |
| Status display | |
| • display of I/Os | yellow LED |
| • display of Uaux | not required |
| • display of AS-Interface/diagnostics | green/red dual LED |

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| Assignment of the data bits | |
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| • socket | PIN 4 = IN1 (D0), PIN 2 = OUT1 (D0) |
| • socket 2 | PIN 4 = IN2 (D1), PIN 2 = OUT2 (D1) |
| • socket 3 | PIN 4 = IN3 (D2), PIN 2 = OUT3 (D2) |
| • socket 4 | PIN 4 = IN4 (D3), PIN 2 = OUT4 (D3) |

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| Ambient conditions | |
| ambient temperature | |
| • during operation | -25 ... +85 °C |
| • during storage | -40 ... +85 °C |
| protection class IP | IP67 |

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| Mechanical data | |
| width | 45 mm |
| height | 80 mm |
| depth | 30 mm |
| fastening method | standard rail mounting/wall mounting using mounting plate for K45 compact module |
| shock resistance | 15g / 11 ms |

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| Certificates/ approvals | | |
| General Product Approval | EMV | Maritime application |



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| Maritime application | other | Environment |
|----------------------|-------|-------------|



[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

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| Industrial Communication |
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Further information

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=3RK2400-0GQ20-0AA3>

Cax online generator

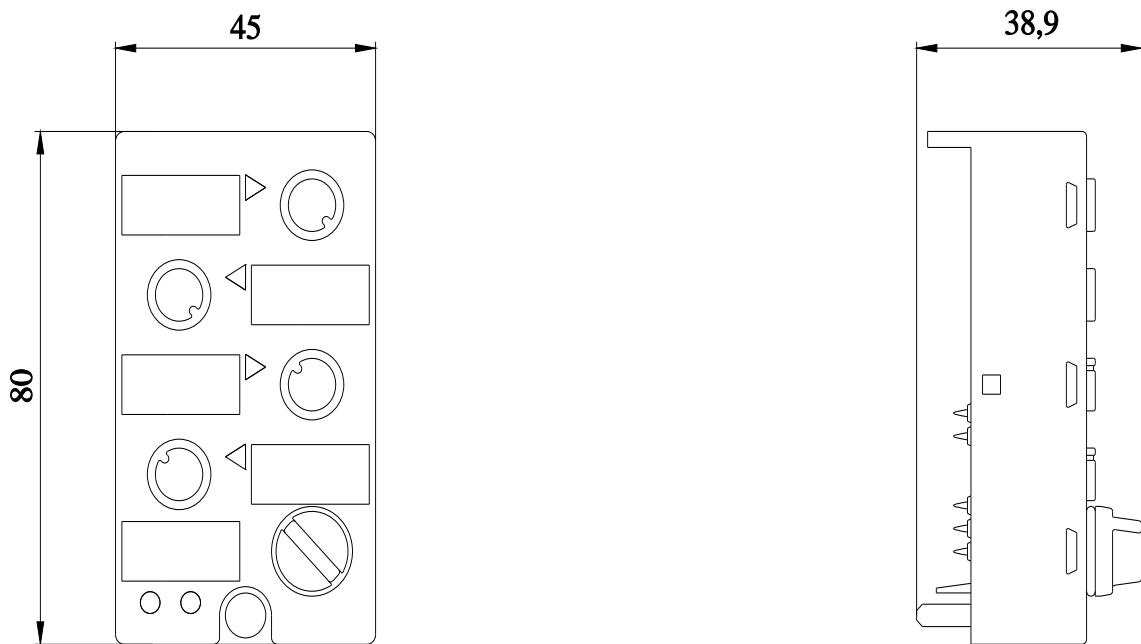
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-0GQ20-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-0GQ20-0AA3>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-0GQ20-0AA3&lang=en



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