

AS-i compact module K45 digital A/B device, 4 DI, IP67, 4 x input, maximum 200 mA 4 x M12 socket 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 inputs                                                                          |
| design of the slave type                                  | A/B slave                                                                         |
| I/O configuration                                         | 0                                                                                 |
| ID/ID2 code                                               | A/0                                                                               |
| 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                                                                            |
| 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                                  |

### 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 <ul style="list-style-type: none"> <li>at ambient temperature 40 °C</li> </ul> | 200 mA             |

### 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"> <li>for signal &lt;1&gt; minimum</li> <li>with signal &lt;0&gt; maximum</li> </ul> | 6 mA<br>1.5 mA                                                                      |
| Inputs sensor supply using AS-Interface                                                                                                              | short-circuit and overload resistant                                                |
| Inputs socket assignment <ul style="list-style-type: none"> <li>PIN 1</li> <li>PIN 2</li> <li>PIN 3</li> <li>PIN 4</li> <li>PIN 5</li> </ul>         | sensor supply L+<br>data input<br>sensor supply L-<br>data input<br>ground terminal |
| design of the pin assignment of the inputs                                                                                                           | standard assignment                                                                 |

### Outputs

|                           |   |
|---------------------------|---|
| number of digital outputs | 0 |
|---------------------------|---|

| Display                                                                                                                                 |                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Status display</b>                                                                                                                   |                                                                                      |
| <ul style="list-style-type: none"> <li>display of I/Os</li> <li>display of Uaux</li> <li>display of AS-Interface/diagnostics</li> </ul> | yellow LED<br>not required<br>green/red dual LED                                     |
| Assignment of the data bits                                                                                                             |                                                                                      |
| <b>Assignment of data bits</b>                                                                                                          |                                                                                      |
| <ul style="list-style-type: none"> <li>socket</li> <li>socket 2</li> <li>socket 3</li> <li>socket 4</li> </ul>                          | PIN 4/2 = IN1 (D0)<br>PIN 4/2 = IN2 (D1)<br>PIN 4/2 = IN3 (D2)<br>PIN 4/2 = IN4 (D3) |
| Ambient conditions                                                                                                                      |                                                                                      |
| <b>ambient temperature</b>                                                                                                              |                                                                                      |
| <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>                                              | -25 ... +85 °C<br>-40 ... +85 °C                                                     |
| <b>protection class IP</b>                                                                                                              | IP67                                                                                 |
| Mechanical data                                                                                                                         |                                                                                      |
| <b>width</b>                                                                                                                            | 45 mm                                                                                |
| <b>height</b>                                                                                                                           | 80 mm                                                                                |
| <b>depth</b>                                                                                                                            | 30 mm                                                                                |
| <b>fastening method</b>                                                                                                                 | standard rail mounting/wall mounting using mounting plate for K45 compact module     |
| <b>shock resistance</b>                                                                                                                 | 15g / 11 ms                                                                          |
| Certificates/ approvals                                                                                                                 |                                                                                      |
| General Product Approval                                                                                                                |                                                                                      |
| EMV                                                                                                                                     |                                                                                      |

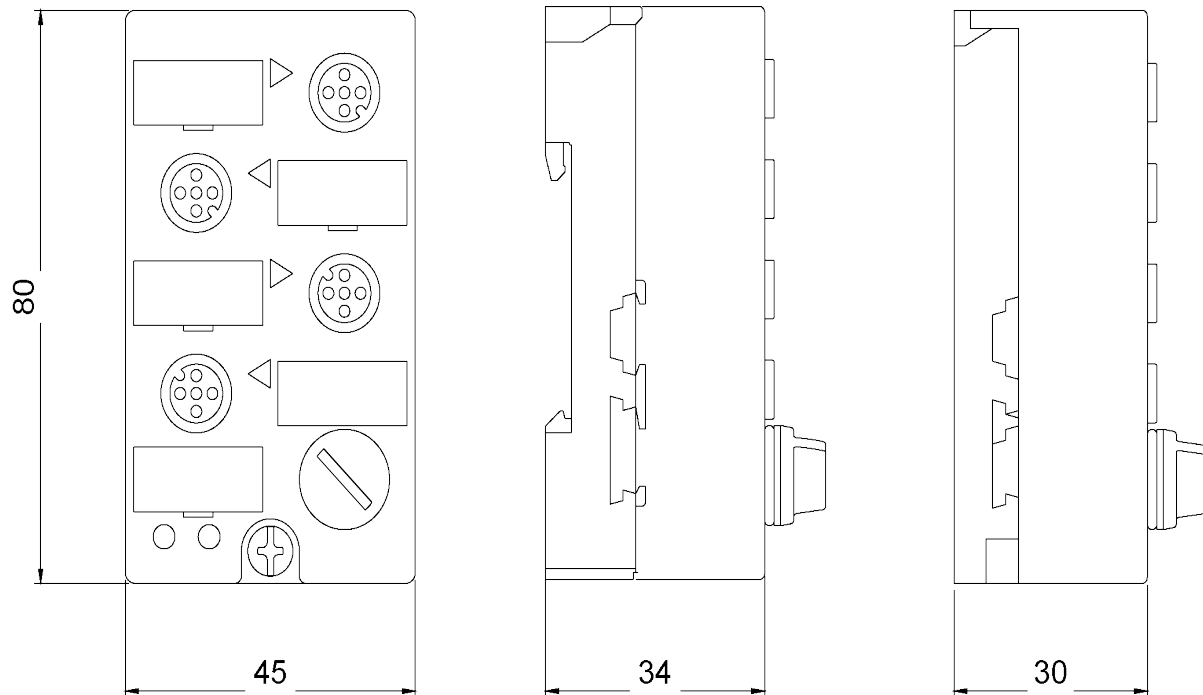


[KC](#)

| Maritime application                                                                                                                                                                                                                                                                                                                            | other                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
|     | <a href="#">Confirmation</a> <a href="#">Miscellaneous</a> |

| Environment                                 | Industrial Communication                                                            |
|---------------------------------------------|-------------------------------------------------------------------------------------|
| <a href="#">Environmental Conformations</a> |  |

| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Information on the packaging</b><br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a><br><b>Information for data generation and storage</b><br><a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a><br><b>Information- and Downloadcenter (Catalogs, Brochures,...)</b><br><a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a><br><b>Industry Mall (Online ordering system)</b><br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2200-0CQ20-0AA3">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2200-0CQ20-0AA3</a><br><b>Cax online generator</b><br><a href="http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RK2200-0CQ20-0AA3">http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RK2200-0CQ20-0AA3</a><br><b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3RK2200-0CQ20-0AA3">https://support.industry.siemens.com/cs/ww/en/ps/3RK2200-0CQ20-0AA3</a><br><b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)</b><br><a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2200-0CQ20-0AA3&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2200-0CQ20-0AA3&amp;lang=en</a> |



last modified:

4/1/2025 