

AS-i compact module K45 digital A/B slave, 4 DI, IP67 4 x input, maximum 200 mA 4 x M8 socket Screw version Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 is to be ordered separately



Figure similar

| 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   | M8 screw-type terminals                                    |
| AS interface total current input max                      | 270 mA                                                     |
| operating voltage according to AS-Interface spezifikation | 26.5 ... 31.6 V                                            |
| Ground terminal                                           | not available                                              |
| 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 power 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             |

|                                                                                                                                                      |                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Inputs</b>                                                                                                                                        |                                                    |
| Number of digital inputs                                                                                                                             | 4                                                  |
| Type of connection                                                                                                                                   | 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 3</li> <li>PIN 4</li> </ul>                                       | sensor supply L+<br>sensor supply L-<br>data input |
| Design of the pin assignment of the inputs                                                                                                           | standard assignment                                |

|                           |   |
|---------------------------|---|
| <b>Outputs</b>            |   |
| Number of digital outputs | 0 |

|                                                                                                                                                        |                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>Display</b>                                                                                                                                         |                                                  |
| Status display <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 |

|                                                                                                                                        |                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Assignment of the data bits</b>                                                                                                     |                                                                              |
| Assignment of data bits <ul style="list-style-type: none"> <li>socket</li> <li>socket 2</li> <li>socket 3</li> <li>socket 4</li> </ul> | PIN 4 = IN1 (D0)<br>PIN 4 = IN2 (D1)<br>PIN 4 = IN3 (D2)<br>PIN 4 = IN4 (D3) |

|                                                                                                                |                                  |
|----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Ambient conditions</b>                                                                                      |                                  |
| Ambient temperature <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul> | -25 ... +85 °C<br>-40 ... +85 °C |
| Protection class IP                                                                                            | IP67                             |

|                        |  |
|------------------------|--|
| <b>Mechanical data</b> |  |
|------------------------|--|

|               |                                                                                  |
|---------------|----------------------------------------------------------------------------------|
| Width         | 45 mm                                                                            |
| Height        | 80 mm                                                                            |
| Depth         | 30 mm                                                                            |
| Mounting type | standard rail mounting/wall mounting using mounting plate for K45 compact module |

#### Certificates/ approvals

| General Product Approval                                                          |                                                                                   |                                                                                   | EMC                                                                               | Declaration of Conformity                                                           |                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|
|  |  |  |  |  | <a href="#">Miscellaneous</a> |
| CSA                                                                               | UL                                                                                |                                                                                   | RCM                                                                               | EG-Konf.                                                                            |                               |

| Shipping Approval                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | other                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| ABS                                                                               | BUREAU VERITAS                                                                    | LRS                                                                               | PRS                                                                               | RMRS                                                                                | ASi                                                                                 |

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

#### 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=3RK2200-OCT20-0AA3>

Cax online generator

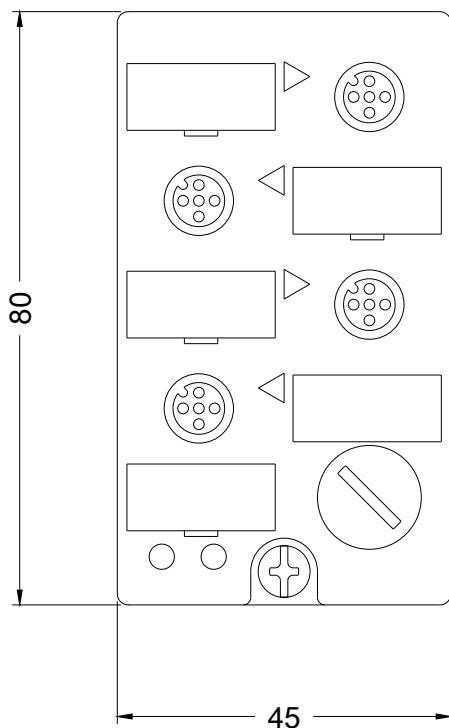
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2200-OCT20-0AA3>

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

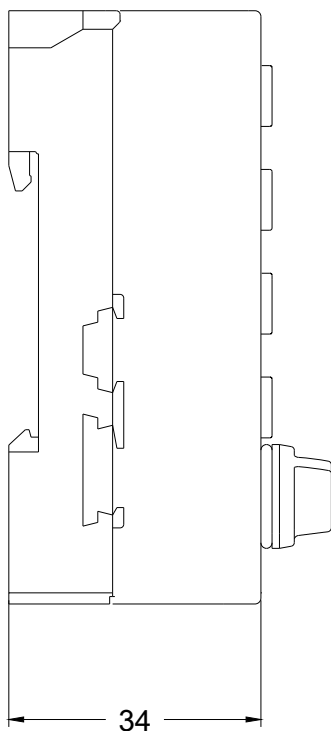
<https://support.industry.siemens.com/cs/ww/en/ps/3RK2200-OCT20-0AA3>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK2200-OCT20-0AA3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2200-OCT20-0AA3&lang=en)



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