



AS-i compact module K60 digital A/B slave, 4 DI/4 DQ, IP67 4 x input, maximum 200 mA 4 x output, 2 A, 24 V DC maximal 4 A for all outputs 8 x M12 socket Y-II assignment Mounting plate 3RK1901-0CA00 must be ordered separately

| General technical data                                                                                                                                                                                                         |                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| design of the product                                                                                                                                                                                                          | digital I/O modules for operation in the field, IP67 - K60                                                                                                                                  |
| Type                                                                                                                                                                                                                           | 4 inputs / 4 outputs                                                                                                                                                                        |
| design of the slave type                                                                                                                                                                                                       | A/B slave (Spec. 3.0)                                                                                                                                                                       |
| I/O configuration                                                                                                                                                                                                              | 7                                                                                                                                                                                           |
| ID/ID2 code                                                                                                                                                                                                                    | A/7                                                                                                                                                                                         |
| Number I/O sockets                                                                                                                                                                                                             | 8                                                                                                                                                                                           |
| 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                                                                                                                                                                                                                | PIN5 of each M12 socket is connected to the grounding wrist strap in the mounting plate using a pin                                                                                         |
| Addressing                                                                                                                                                                                                                     | front addressing socket                                                                                                                                                                     |
| Delivery note                                                                                                                                                                                                                  | the modules are delivered without mounting plate                                                                                                                                            |
| Note 2                                                                                                                                                                                                                         | An external additional supply (AUX POWER) of 20 to 30 V DC is required for the supply of the output circuits. The additional supply must comply with VDE 0106 (PELV), protection class III. |
| 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 <ul style="list-style-type: none"><li>sensor supply using AS-Interface</li><li>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></li></ul> | short-circuit and overload resistant<br><br>sensor supply L+<br>data input II<br>sensor supply L-<br>data input I<br>ground terminal                                                        |

|                                                                                                                                          |                                            |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| design of the pin assignment of the inputs                                                                                               | Y-II assignement                           |
| <b>Outputs</b>                                                                                                                           |                                            |
| number of digital outputs                                                                                                                | 4                                          |
| type of voltage of output voltages                                                                                                       | DC                                         |
| Outputs external power supply 24 V DC                                                                                                    | using black AS-Interface flat cable        |
| ampacity of the semiconductor output at DC-13 at 24 V                                                                                    | 2 A                                        |
| Outputs aggregate current max                                                                                                            | 4 A                                        |
| type of switching output                                                                                                                 | PNP transistor                             |
| design of the pin assignment of the outputs                                                                                              | Y-II assignement                           |
| Outputs socket assignment                                                                                                                | 3 = "-", 2/4 = output, 5 = ground terminal |
| property of the output short-circuit proof                                                                                               | Yes                                        |
| Outputs <ul style="list-style-type: none"> <li>• short-circuit protection</li> <li>• induction protection</li> <li>• watchdog</li> </ul> | built-in<br>built-in<br>built-in           |

#### Assignment of the data bits

|                                                                                                                                                                                                                                |                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> <li>• socket 5</li> <li>• socket 6</li> <li>• socket 7</li> <li>• socket 8</li> </ul> | PIN 4 = IN1 (D0), PIN 2 = IN2 (D1)<br>PIN 4 = IN2 (D1)<br>PIN 4 = IN3 (D2) , PIN 2 = IN4 (D3)<br>PIN 4 = IN4 (D3)<br>PIN4 = OUT1 (D0), PIN2 = OUT2 (D1)<br>PIN4 = OUT2 (D1)<br>PIN4 = OUT3 (D2), PIN2 = OUT4 (D3)<br>PIN4 = OUT4 (D3) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Ambient conditions

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

#### Display

|                                                                                                                                                              |                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 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>green LED<br>green/red LED |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|

#### Mechanical data

|                  |                                                                                  |
|------------------|----------------------------------------------------------------------------------|
| width            | 60 mm                                                                            |
| height           | 152 mm                                                                           |
| depth            | 29 mm                                                                            |
| fastening method | standard rail mounting/wall mounting using mounting plate for K60 compact module |
| shock resistance | 15g / 11 ms                                                                      |

#### Certificates/ approvals

|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|



[Confirmation](#)



|     |                   |       |
|-----|-------------------|-------|
| EMV | Marine / Shipping | other |
|-----|-------------------|-------|

[KC](#)



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|             |                          |
|-------------|--------------------------|
| Environment | Industrial Communication |
|-------------|--------------------------|



#### Further information

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**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=3RK2400-1DQ00-0AA3>

**Cax online generator**

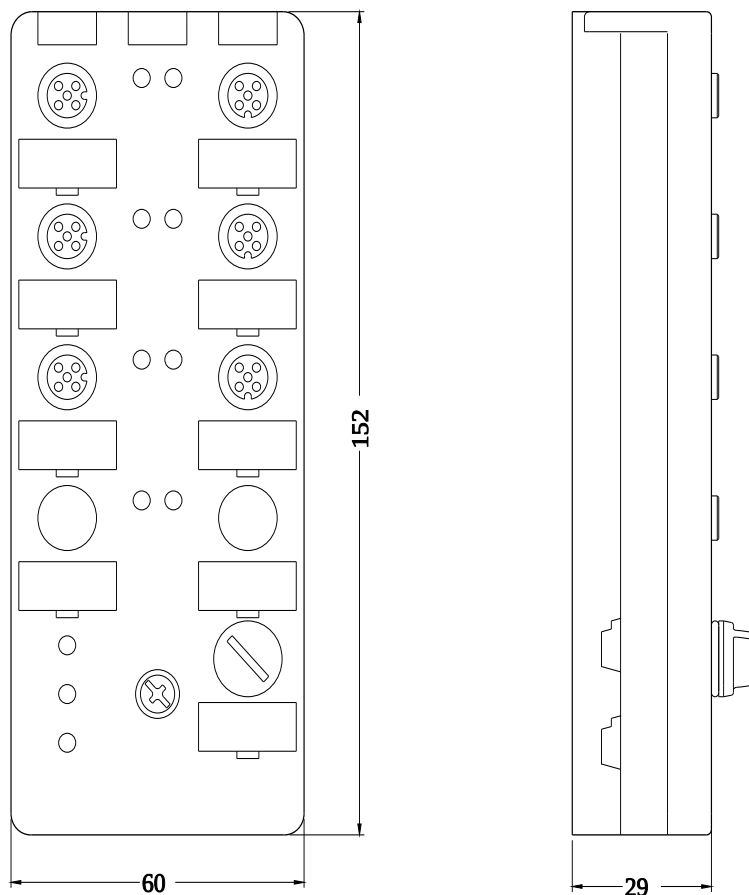
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-1DQ00-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1DQ00-0AA3>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK2400-1DQ00-0AA3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-1DQ00-0AA3&lang=en)



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