

AS-i compact module K20 digital A/B slave, 4 DI, IP67 4 x input, maximum 200 mA 4 x M8 socket



| General technical data                                    |                                                            |
|-----------------------------------------------------------|------------------------------------------------------------|
| Design of the product                                     | digital I/O modules for operation in the field, IP67 - K20 |
| 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 specification | 26.5 ... 31.6 V                                            |
| Ground terminal                                           | not available                                              |
| Addressing                                                | using M12 female connector                                 |
| AS interface Connection Polarity reversal protection      | built-in                                                   |
| Sensor supply                                             |                                                            |
| Type of voltage supply for power supply                   | using AS-Interface                                         |
| Input voltage                                             | 16.5 ... 30 V                                              |

|                                                                    |                                      |
|--------------------------------------------------------------------|--------------------------------------|
| Property of the sensor supply Short-circuit and overload resistant | Yes                                  |
| Ampacity of the sensor supply for all inputs                       |                                      |
| • at ambient temperature 40 °C                                     | 200 mA                               |
| • at ambient temperature 55 °C                                     | 150 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                                     |                                      |
| • for signal <1> minimum                                           | 6 mA                                 |
| • with signal <0> maximum                                          | 1.5 mA                               |
| Inputs sensor supply using AS-Interface                            | short-circuit and overload resistant |
| Inputs socket assignment                                           |                                      |
| • PIN 1                                                            | sensor supply L+                     |
| • PIN 3                                                            | sensor supply L-                     |
| • PIN 4                                                            | 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                                                     |                                      |
| • display of I/Os                                                  | yellow LED                           |
| • display of Uaux                                                  | not required                         |
| • display of AS-Interface/diagnostics                              | green/red dual LED                   |
| <b>Assignment of the data bits</b>                                 |                                      |
| Assignment of data bits                                            |                                      |
| • socket                                                           | PIN 4 = IN1 (D0)                     |
| • socket 2                                                         | PIN 4 = IN2 (D1)                     |
| • socket 3                                                         | PIN 4 = IN3 (D2)                     |
| • socket 4                                                         | PIN 4 = IN4 (D3)                     |
| <b>Ambient conditions</b>                                          |                                      |
| Ambient temperature                                                |                                      |
| • during operation                                                 | -25 ... +70 °C                       |
| • during storage                                                   | -40 ... +85 °C                       |
| Protection class IP                                                | IP67                                 |
| <b>Mechanical data</b>                                             |                                      |
| Width                                                              | 20 mm                                |

|               |                            |
|---------------|----------------------------|
| Height        | 108 mm                     |
| Depth         | 45 mm                      |
| Mounting type | no mounting plate required |

#### Certificates/approvals

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

| Test Certificates                        | Shipping Approval                                                                        |                                                                                                     |                                                                                          |                                                                                            |                                                                                             |
|------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <a href="#">Special Test Certificate</a> | <br>ABS | <br>BUREAU VERITAS | <br>LRS | <br>PRS | <br>RMRS |

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

#### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2200-0CT30-0AA3>

**Cax online generator**

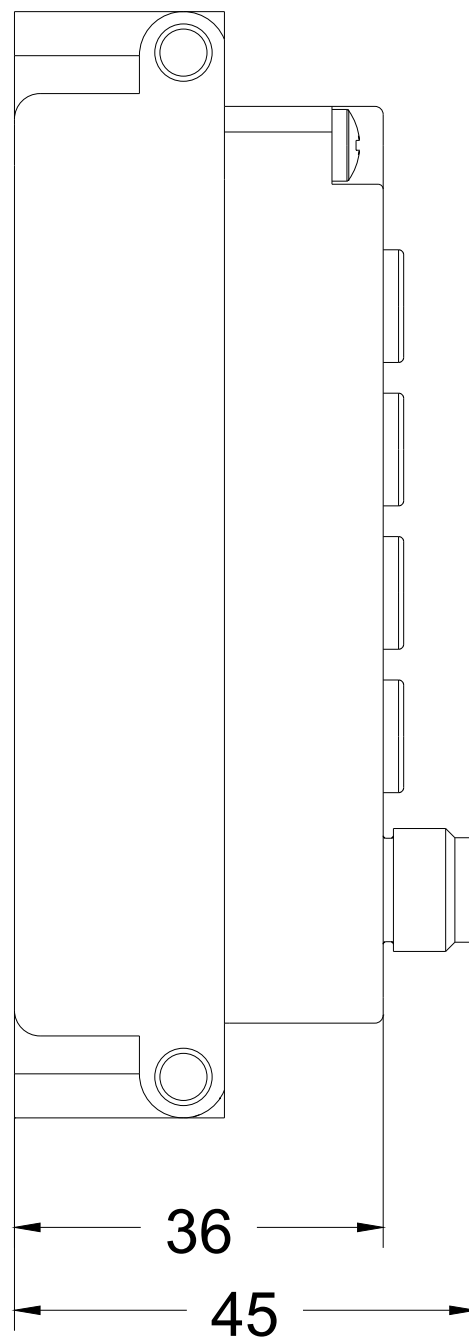
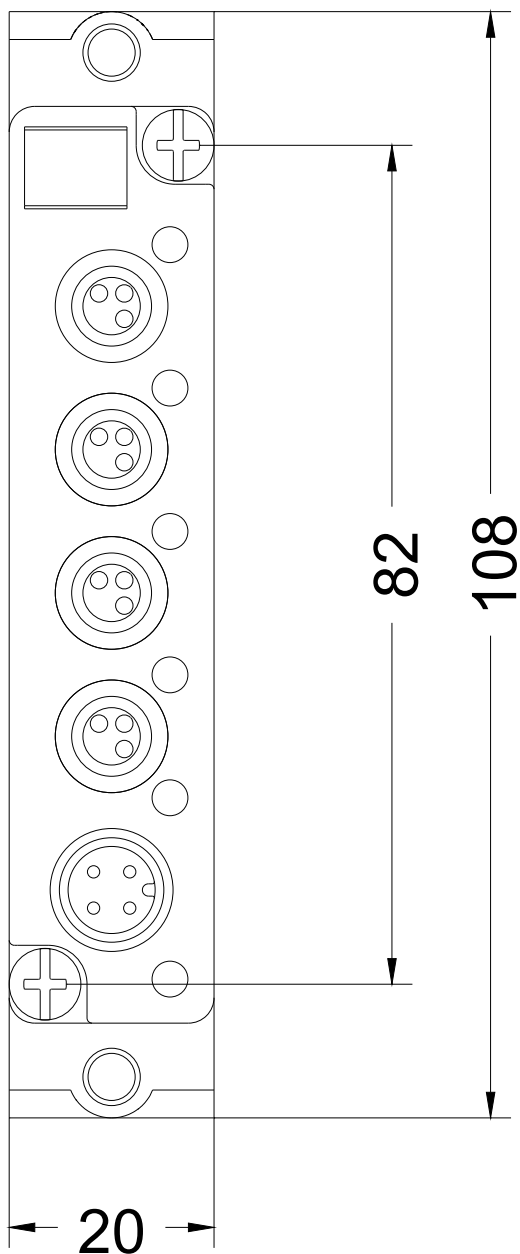
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2200-0CT30-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2200-0CT30-0AA3>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK2200-0CT30-0AA3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2200-0CT30-0AA3&lang=en)



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