

AS-i compact module K45 digital 4 DQ, IP67 4 x output, 1 A 24 V DC maximal 3 A for all outputs 4 x M12 socket Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 must be ordered separately

| General technical data | |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| design of the product | digital I/O modules for operation in the field, IP67 - K45 |
| Type | 4 outputs |
| design of the slave type | standard slave |
| I/O configuration | 8 |
| ID/ID2 code | 0/F |
| Number I/O sockets | 4 |
| type of electrical connection of the inputs and outputs | M12 screw-type terminals |
| AS interface total current input max | 45 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 1 | 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. |
| Inputs | |
| number of digital inputs | 0 |
| type of connection technology | 2- and 3-wire technology |
| Input circuit | PNP transistor |
| Inputs sensor supply using AS-Interface | short-circuit and overload resistant |
| Outputs | |
| 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 | 1 A |
| Outputs aggregate current | |
| • max | 3 A |
| type of switching output | PNP transistor |
| design of the pin assignment of the outputs | standard assignment |
| Outputs socket assignment | 3 = "-", 4 = 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 |
| Display | |
| Status display | |
| • display of I/Os | yellow LED |

- display of Uaux green LED
- display of AS-Interface/diagnostics green/red dual LED

Assignment of the data bits

| Assignment of data bits | |
|-------------------------|-------------------|
| • socket | PIN 4 = OUT1 (D0) |
| • socket 2 | PIN 4 = OUT2 (D1) |
| • socket 3 | PIN 4 = OUT3 (D2) |
| • socket 4 | PIN 4 = OUT4 (D3) |

Ambient conditions

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

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 |

Certificates/ approvals

| General Product Approval | EMC | Declaration of Conformity |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Confirmation  UL |  EAC |  RCM |
| | |  UKCA |
| | |  EG-Konf. |

| Marine / Shipping | other |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|  LRS |  PRR |
|  DNV-GL |  ASi |
| | Confirmation |
| | Miscellaneous |

Further information

Siemens has decided to exit the Russian market (see here).
<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.
 Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>

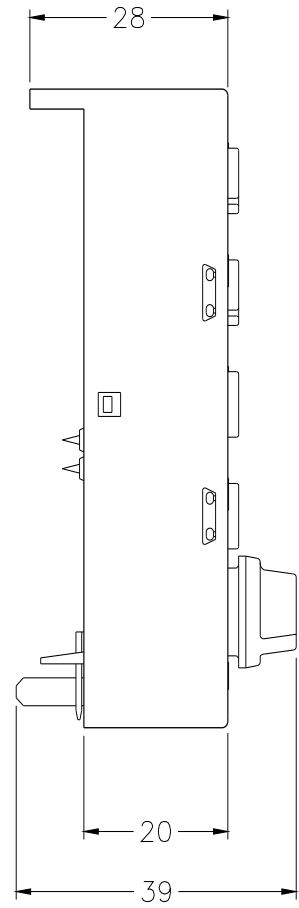
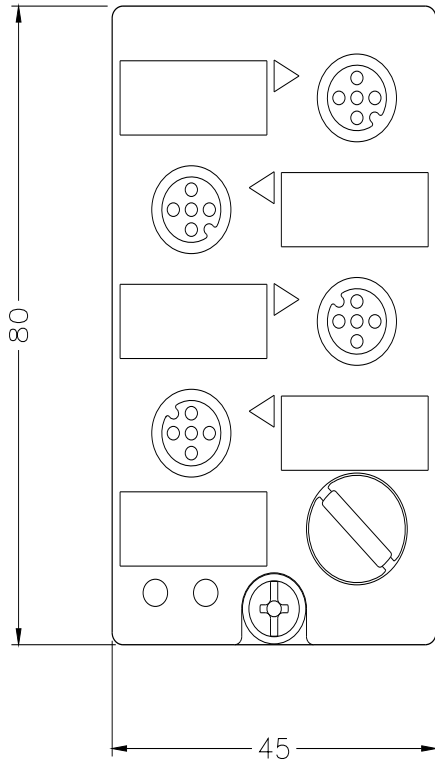
Information- and Downloadcenter (Catalogs, Brochures,...)
<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1100-1CQ20-0AA3>

Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1100-1CQ20-0AA3>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1100-1CQ20-0AA3>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1100-1CQ20-0AA3&lang=en



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