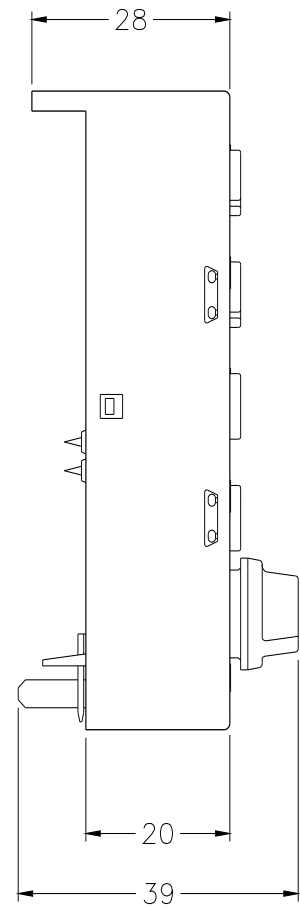
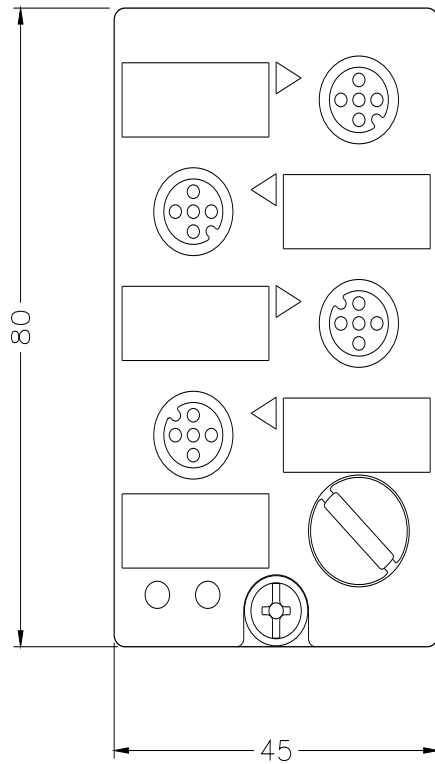




AS-i compact module K45 digital 4 DQ, IP67 4 x output, 1 A 24 V DC maximal 3 A for all outputs 4 x M12 socket Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 must be ordered separately

| 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 <ul style="list-style-type: none"><li>max</li></ul>                                                  | 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 <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                                                                                                                                                            |
| Display                                                                                                                        |                                                                                                                                                                                             |
| Status display <ul style="list-style-type: none"><li>display of I/Os</li></ul>                                                 | yellow LED                                                                                                                                                                                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                  |                          |                          |                   |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------|--------------------------|
| <ul style="list-style-type: none"><li>display of Uaux</li><li>display of AS-Interface/diagnostics</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | green LED<br>green/red dual LED                                                  |                          |                          |                   |                          |
| 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></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PIN 4 = OUT1 (D0)<br>PIN 4 = OUT2 (D1)<br>PIN 4 = OUT3 (D2)<br>PIN 4 = 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                                                                             |                          |                          |                   |                          |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                  |                          |                          |                   |                          |
| <table><tr><td>General Product Approval</td><td>EMV</td><td>Marine / Shipping</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                  | General Product Approval | EMV                      | Marine / Shipping |                          |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EMV                                                                              | Marine / Shipping        |                          |                   |                          |
| <div><div><br/>EG-Konf.</div><div></div><div><br/>UL</div><div></div><div><br/>RCM</div><div><br/>DNV</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                  |                          |                          |                   |                          |
| <table><tr><td>Marine / Shipping</td><td>other</td><td>Environment</td><td>Industrial Communication</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                  | Marine / Shipping        | other                    | Environment       | Industrial Communication |
| Marine / Shipping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | other                                                                            | Environment              | Industrial Communication |                   |                          |
| <div><div><br/>PRS</div><div><a href="#">Confirmation</a></div><div><a href="#">Miscellaneous</a></div><div><a href="#">Environmental Confirmations</a></div><div><br/>ASi</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  |                          |                          |                   |                          |
| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                  |                          |                          |                   |                          |
| <p>Information on the packaging<br/><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a></p> <p>Information- and Downloadcenter (Catalogs, Brochures,...)<br/><a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a></p> <p>Industry Mall (Online ordering system)<br/><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1100-1CQ20-0AA3">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1100-1CQ20-0AA3</a></p> <p>Cax online generator<br/><a href="http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RK1100-1CQ20-0AA3">http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RK1100-1CQ20-0AA3</a></p> <p>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)<br/><a href="https://support.industry.siemens.com/cs/ww/en/ps/3RK1100-1CQ20-0AA3">https://support.industry.siemens.com/cs/ww/en/ps/3RK1100-1CQ20-0AA3</a></p> <p>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)<br/><a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1100-1CQ20-0AA3&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1100-1CQ20-0AA3&amp;lang=en</a></p> |                                                                                  |                          |                          |                   |                          |



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