



Figure similar

AS-i compact module K20 digital 4 DI/4 DQ, IP67 4 x input, maximum 200 mA 4 x output, 1 A, 24 V DC maximal 2 A for all outputs 8 x M8 sockets

| General technical data | |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| design of the product | digital I/O modules for operation in the field, IP67 - K20 |
| Type | 4 outputs / 4 inputs |
| design of the slave type | standard slave |
| I/O configuration | 7 |
| ID/ID2 code | 0/E |
| Number I/O sockets | 8 |
| 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 |
| 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. |
| Sensor supply | |
| type of voltage supply for sensor supply | using AS-Interface |
| input voltage | 16.5 ... 30 V |
| property of the sensor supply short-circuit and overload resistant | Yes |
| capacity of the sensor supply for all inputs | |
| <ul style="list-style-type: none"> at ambient temperature 40 °C at ambient temperature 55 °C | 200 mA 150 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"> for signal <1> minimum with signal <0> maximum | 6 mA 1.5 mA |
| Inputs sensor supply using AS-Interface | short-circuit and overload resistant |
| Inputs socket assignment | |
| <ul style="list-style-type: none"> PIN 1 PIN 3 PIN 4 | sensor supply L+ sensor supply L- data input |
| design of the pin assignment of the inputs | standard assignment |
| Outputs | |

| | |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|
| number of digital outputs | 4 |
| type of voltage of output voltages | DC |
| Outputs external power supply 24 V DC | shared round cable connection with AS-Interface connection through M12 female connector |
| ampacity of the semiconductor output at DC-13 at 24 V | 1 A |
| Outputs aggregate current | |
| • max | 2 A |
| • at Tu=40 °C max | 2 A |
| type of switching output | PNP transistor |
| design of the pin assignment of the outputs | standard assignment |
| Outputs socket assignment | 3 = "-", 4 = output |
| 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 = IN1 (D0) |
| • socket 2 | PIN 4 = IN2 (D1) |
| • socket 3 | PIN 4 = IN3 (D2) |
| • socket 4 | PIN 4 = IN4 (D3) |
| • socket 5 | PIN 4 = OUT1 (D0) |
| • socket 6 | PIN 4 = OUT2 (D1) |
| • socket 7 | PIN 4 = OUT3 (D2) |
| • socket 8 | PIN 4 = OUT4 (D3) |

| Ambient conditions | |
|---------------------|----------------|
| ambient temperature | |
| • during operation | -25 ... +70 °C |
| • during storage | -40 ... +85 °C |
| protection class IP | IP67 |

| Mechanical data | |
|------------------|----------------------------|
| width | 20 mm |
| height | 164 mm |
| depth | 45 mm |
| fastening method | no mounting plate required |
| shock resistance | 15g / 11 ms |

| Certificates/ approvals | | |
|--------------------------|-----|-------------------|
| General Product Approval | EMV | Test Certificates |



[Special Test Certificate](#)

| | |
|----------------------|-------|
| Maritime application | other |
|----------------------|-------|



[Confirmation](#)

[Miscellaneous](#)

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



Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RK1400-1CT30-0AA3>

Cax online generator

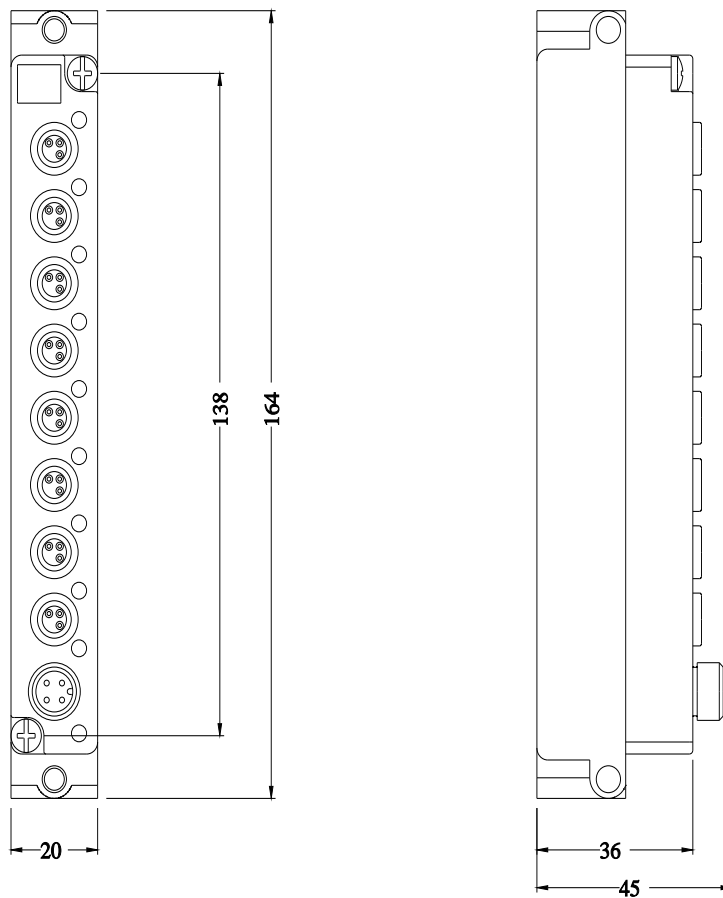
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1400-1CT30-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1400-1CT30-0AA3>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1400-1CT30-0AA3&lang=en



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