



AS-I COMPACT MODULE K20, IP67,  
 A/B-SLAVE, DIGITAL, 4DI,  
 4 X INPUT FOR SENSOR(MECHAN./2- OR 3-WIRE) PNP,  
 SENSOR SUPPLY FROM U\_ASI "TOTAL MAX.200MA,  
 " 4XM8-SOCKET

### General technical data:

|   |    |  |
|---|----|--|
| <b>Design of the product</b>  |    | digital I/O modules for operation in the field, IP67 - K20 |
| <b>Type</b>   |    | 4 inputs   |
| <b>Design of the slave type</b>   |    | A/B slave  |
| <b>I/O configuration</b>  |    | 0  |
| <b>ID/ID2 code</b>  |    | A/0  |
| <b>Number / I/O sockets</b>   |    | 4  |
| <b>Design of the electrical connection / of the inputs and outputs</b>                      |    | M8 screw-type terminals                                    |
| <b>AS interface / total current input / max</b>   | mA | 270  |
| <b>operating voltage</b>  |    |  |
| <ul style="list-style-type: none"> <li>• according to AS-Interface specification</li> </ul> | V  | 26.5 ... 31.6  |
| <b>Ground terminal</b>  |    | not available  |
| <b>Addressing</b>   |    | using M12 female connector                                 |
| <b>AS interface / Connection / Polarity reversal protection</b>                             |    | built-in   |

### Sensor supply:

|   |   |                    |
|---|---|--------------------|
| <b>Type of voltage supply / for the sensor supply</b>                                     |   | using AS-Interface |
| <b>Input voltage</b>  | V | 16.5 ... 30        |
| <b>Characteristic feature of the sensor supply / short-circuit and overload resistant</b> |   | Yes                |

|  |    |     |
|--|----|-----|
| <b>Current carrying capacity / of the sensor supply / for all inputs</b> |    |     |
| • at ambient temperature 40 °C   | mA | 200 |
| • at ambient temperature 55 °C   | mA | 150 |

|   |    |                                      |
|---|----|--------------------------------------|
| <b>Inputs:</b>                                      |    |                                      |
| <b>Number of digital inputs</b>                     |    | 4                                    |
| <b>Type of connection</b>                           |    | 2- and 3-wire technology             |
| <b>Input circuit</b>                                |    | PNP transistor                       |
| <b>Type of / input voltages</b>                     |    | DC                                   |
| <b>Inputs / switching level High / min</b>          | V  | 10                                   |
| <b>Input current / at the digital input</b>         |    |                                      |
| • for signal <1> / minimum                          | mA | 6                                    |
| • at signal <0> / maximum                           | mA | 1.5                                  |
| <b>Inputs</b>                                       |    |                                      |
| • sensor supply using AS-Interface                  |    | short-circuit and overload resistant |
| <b>Inputs / socket assignment</b>                   |    |                                      |
| • PIN 1   |    | sensor supply L+                     |
| • PIN 3   |    | sensor supply L-                     |
| • PIN 4   |    | data input                           |
| <b>Design of the pin assignment / of the inputs</b> |    | standard assignment                  |

|                                  |  |   |
|----------------------------------|--|---|
| <b>Outputs:</b>                  |  |   |
| <b>Number of digital outputs</b> |  | 0 |

|                                       |  |                    |
|---------------------------------------|--|--------------------|
| <b>Status display</b>                 |  |                    |
| • display of I/Os                     |  | yellow LED         |
| • display of Uaux                     |  | not required       |
| • display of AS-Interface/diagnostics |  | green/red dual LED |

|                                |  |                  |
|--------------------------------|--|------------------|
| <b>Assignment of data bits</b> |  |                  |
| • 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> |    |             |
| <b>Ambient temperature</b> |    |             |
| • during operating         | °C | -25 ... +70 |
| • during storage           | °C | -40 ... +85 |
| <b>Protection class IP</b> |    | IP67        |

**Mechanical design:**

|               |    |                            |
|---------------|----|----------------------------|
| Width         | mm | 20                         |
| Height        | mm | 108                        |
| Depth         | mm | 45                         |
| Mounting type |    | no mounting plate required |

#### Certificates/approvals:

|                          |  |                      |
|--------------------------|--|----------------------|
| AS-Interface certificate |  | yes                  |
| Approvals                |  | UL and CSA requested |

#### General Product Approval



#### Test Certificates

[Special Test Certificate](#)

#### Shipping Approval



#### other

[Confirmation](#)

[Declaration of Conformity](#)

[other](#)

[Environmental Confirmations](#)

#### Further information:

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

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

##### Industry Mall (Online ordering system)

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

##### CAX-Online-Generator

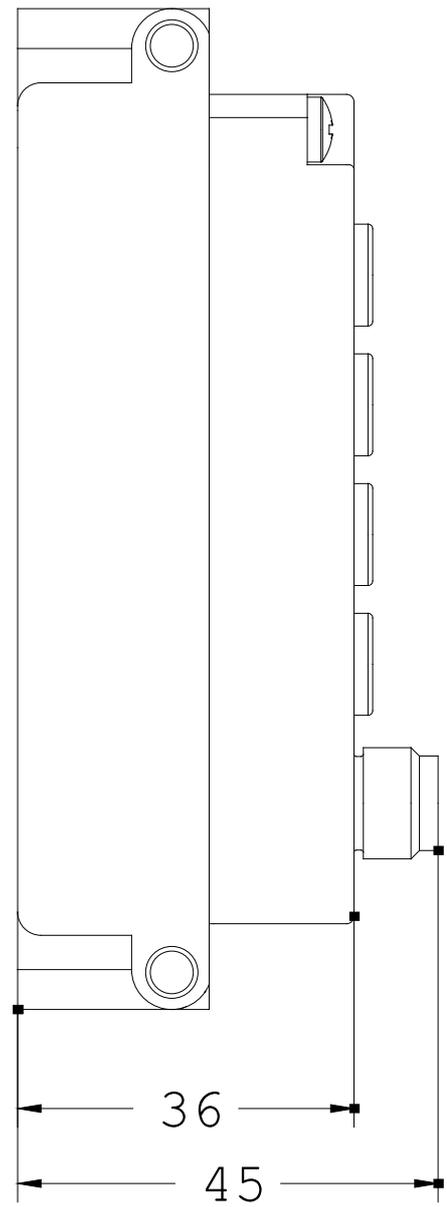
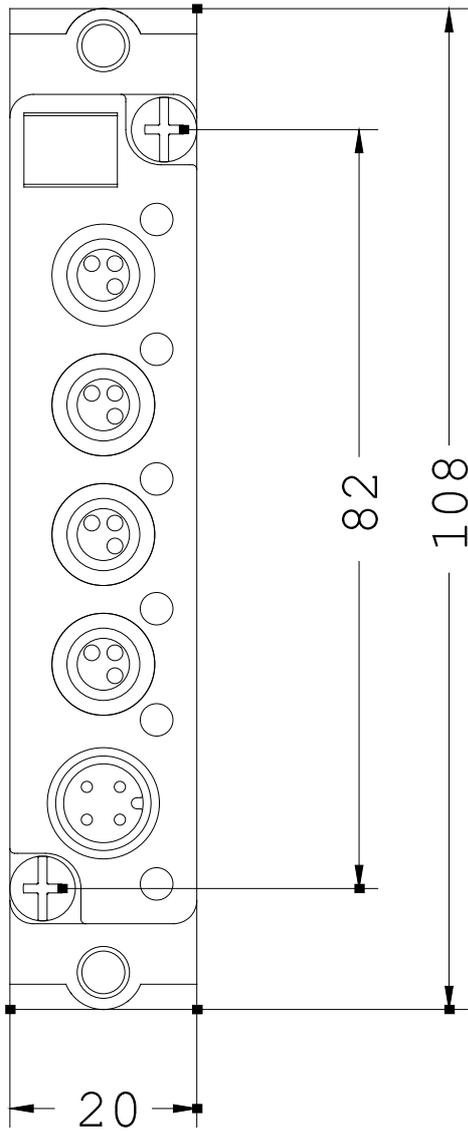
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK2200-OCT30-0AA3/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RK2200-OCT30-0AA3](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK2200-OCT30-0AA3)



last change:

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