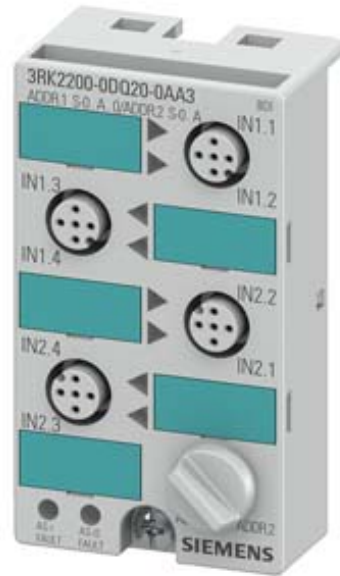


AS-i compact module K45 digital A/B slave, 8 DI, IP67 4 x 2 inputs, max. 200 mA 4 x M12 socket with Y assignment Mounting plate 3RK1901-2EA00 or mounting plate 3RK191-2DA00 must be ordered separately



## General technical data

<b>Design of the product</b>	digital I/O modules for operation in the field, IP67 - K45
<b>Type</b>	8 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>	8
<b>Type of electrical connection of the inputs and outputs</b>	M12 screw-type terminals
<b>AS interface total current input max</b>	270 mA
<b>Total current for all inputs and outputs</b>	200 mA
<b>operating voltage according to AS-Interface specification</b>	18 ... 31.6 V
<b>Ground terminal</b>	Using PIN5 on the M12 sockets. Outgoing via flat tab sleeve (2.8 x 0.8 mm form A)
<b>Addressing</b>	front double-addressing socket
<b>AS interface Connection Polarity reversal protection</b>	built-in
<b>Delivery note</b>	the modules are delivered without mounting plate
<b>Note 1</b>	Module needs two addresses

<b>Note 2</b>	The maximum current carrying capacity per module for all inputs and sensor supply is 200 mA
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### Sensor supply

<b>Type of voltage supply for power supply</b>	using AS-Interface
<b>Input voltage</b>	16.5 ... 30 V
<b>Property of the sensor supply Short-circuit and overload resistant</b>	Yes
<b>Ampacity of the sensor supply for all inputs</b>	
<ul style="list-style-type: none"> <li>at ambient temperature 40 °C</li> </ul>	200 mA

### Inputs

<b>Number of digital inputs</b>	8
<b>Type of connection</b>	2- and 3-wire technology
<b>Input circuit</b>	PNP transistor
<b>Type of voltage of the input voltages</b>	DC
<b>Inputs switching level High min</b>	10 V
<b>Input current at digital input</b>	
<ul style="list-style-type: none"> <li>for signal &lt;1&gt; minimum</li> <li>with signal &lt;0&gt; maximum</li> </ul>	6 mA 1.5 mA
<b>Inputs sensor supply using AS-Interface</b>	short-circuit and overload resistant
<b>Inputs socket assignment</b>	
<ul style="list-style-type: none"> <li>PIN 1</li> <li>PIN 2</li> <li>PIN 3</li> <li>PIN 4</li> <li>PIN 5</li> </ul>	sensor supply L+ data input 2 sensor supply L- data input 1 ground terminal
<b>Design of the pin assignment of the inputs</b>	Y assignement

### Outputs

<b>Number of digital outputs</b>	0
<b>Outputs external power supply 24 V DC</b>	not required

### Display

<b>Status display</b>	
<ul style="list-style-type: none"> <li>display of I/Os</li> <li>display of Uaux</li> <li>display of AS-Interface/diagnostics</li> </ul>	yellow LED not required green/red dual LED (2 diodes)

### Assignment of the data bits

<b>Assignment of data bits</b>	
<ul style="list-style-type: none"> <li>socket</li> <li>socket 2</li> <li>socket 3</li> <li>socket 4</li> </ul>	PIN 4 = IN1 (D0), PIN 2 = IN2 (D1) / Addr.1 PIN 4 = IN3 (D2), PIN 2 = IN4 (D3) / Addr.1 PIN 4 = IN1 (D0), PIN 2 = IN2 (D1) / Addr.2 PIN 4 = IN3 (D2), PIN 2 = IN4 (D3) / Addr.2






## Ambient conditions






<b>Ambient temperature</b>	
• during operation	-25 ... +85 °C
• during storage	-40 ... +85 °C
<b>Protection class IP</b>	IP67

## Mechanical data

<b>Width</b>	45 mm
<b>Height</b>	80 mm
<b>Depth</b>	30 mm
<b>Mounting type</b>	standard rail mounting/wall mounting using mounting plate for K45 compact module

## Certificates/ approvals

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

Shipping Approval	other				
 ABS	 LRS	 PRS	 RMRS	 ASi	<a href="#">Confirmation</a>

other
<a href="#">Miscellaneous</a>

## Further information

### 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?mfb=3RK2200-0DQ20-0AA3>

### Cax online generator

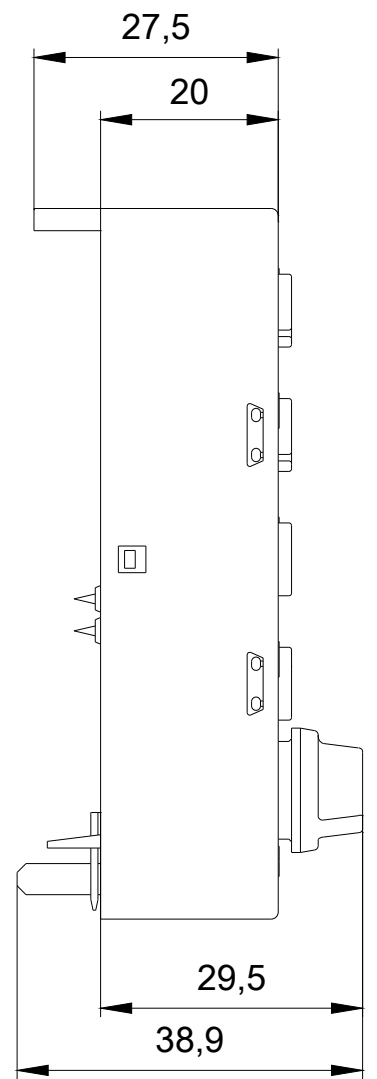
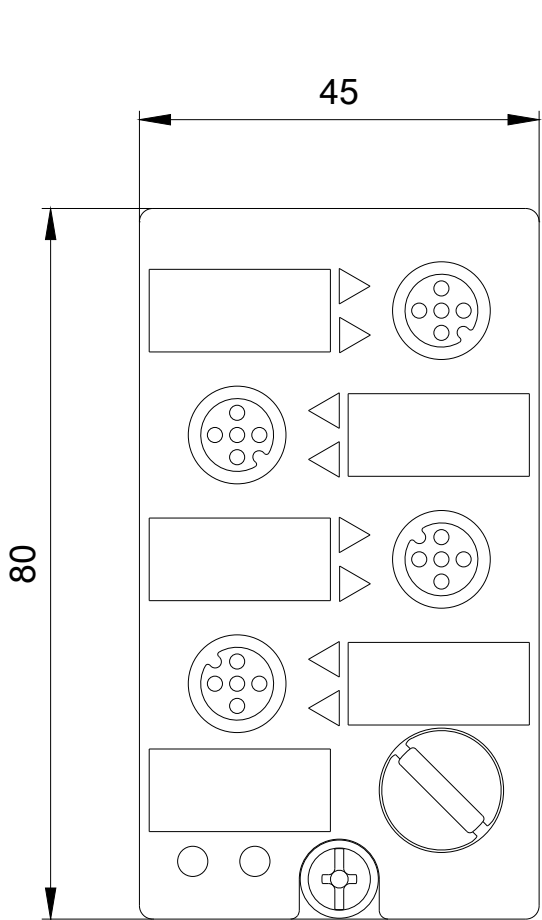
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK2200-0DQ20-0AA3>

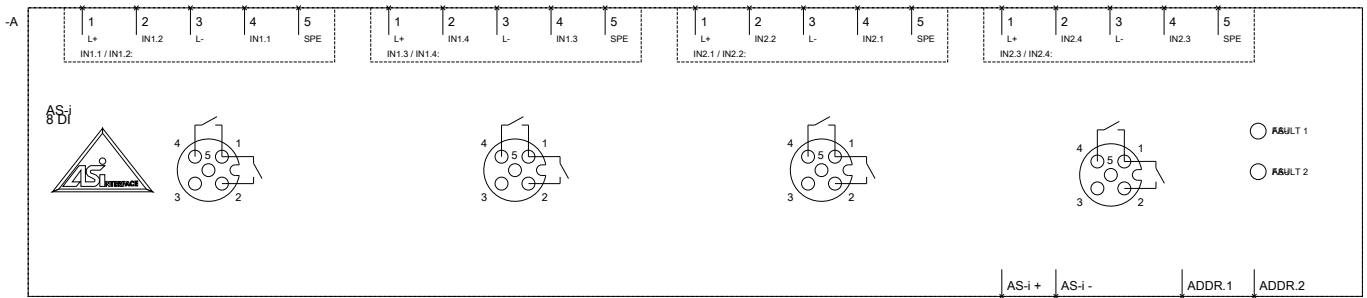
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2200-0DQ20-0AA3>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RK2200-0DQ20-0AA3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RK2200-0DQ20-0AA3&lang=en)

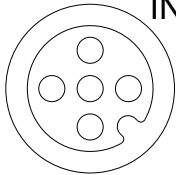




3RK2200-0DQ20-0AA3

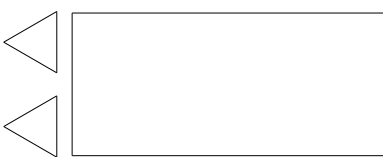
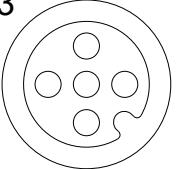
8DI

ADDR.1 S-0.A.0/ADDR.2 S-0.A.0



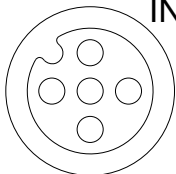
IN1.1

IN1.3



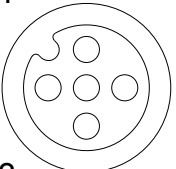
IN1.2

IN1.4



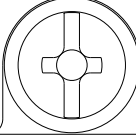
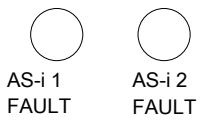
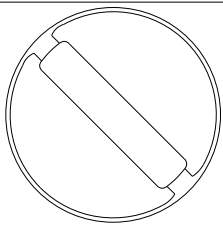
IN2.2

IN2.4



IN2.1

IN2.3



ADDR.1 ADDR.2  
SIEMENS

last modified:

09/24/2020