



AS-INTERFACE COMPACT MOD. K45, IP67, DIGITAL, 2 IN-/OUTPUTS, 2X1 INPUT, 200MA MAX., PNP, 2 X 1OUTP., ELECTR., 1.5A, DC 24V 3A MAX. FOR ALL OUTPUTS 4 X M12-SOCKETS

General technical data:

<b>Design of the product</b>		digital I/O modules for operation in the field, IP67 - K45
<b>Type</b>		2 inputs / 2 outputs
<b>Design of the slave type</b>		standard slave
<b>I/O configuration</b>		3
<b>ID/ID2 code</b>		0/F
<b>Number I/O sockets</b>		4
<b>Type of electrical connection of the inputs and outputs</b>		M12 screw-type terminals
<b>AS interface total current input max</b>	mA	270
operating voltage according to AS-Interface specification	V	26.5 ... 31.6
<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 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>		All K45 compact modules are delivered with stainless steel screws/sockets
<b>Note 2</b>		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:

<b>Type of voltage supply for power supply</b>		using AS-Interface
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<b>Input voltage</b>	V	20 ... 30
<b>Property of the sensor supply Short-circuit and overload resistant</b>		Yes
Ampacity of the sensor supply for all inputs <ul style="list-style-type: none"> <li>at ambient temperature 40 °C</li> </ul>	mA	200

### Inputs:

<b>Number of digital inputs</b>		2
<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>	V	10
Input current at digital input <ul style="list-style-type: none"> <li>for signal &lt;1&gt; minimum</li> <li>with signal &lt;0&gt; maximum</li> </ul>	mA mA	6 1.5
<b>Inputs sensor supply using AS-Interface</b>		short-circuit and overload resistant
Inputs socket assignment <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 sensor supply L- data input ground terminal
<b>Design of the pin assignment of the inputs</b>		standard assignment

### Outputs:

<b>Number of digital outputs</b>		2
<b>Type of voltage of output voltages</b>		DC
<b>Outputs external power supply 24 V DC</b>		using black AS-Interface flat cable
<b>Output current at digital output for signal &lt;1&gt; Rated value</b>	A	2
Outputs aggregate current <ul style="list-style-type: none"> <li>max</li> </ul>	A	3
<b>Type of switching output</b>		PNP transistor
<b>Design of the pin assignment of the outputs</b>		standard assignment
<b>Outputs socket assignment</b>		3 = "-", 4 = output, 5 = ground terminal
<b>Property of the output Short-circuit proof</b>		Yes
<b>Outputs</b> <ul style="list-style-type: none"> <li>short-circuit protection</li> <li>induction protection</li> <li>watchdog</li> </ul>		built-in built-in built-in
<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 green LED green/red dual LED

<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 4/2 = IN1 (D0) PIN 4/2 = IN2 (D1) PIN 4 = OUT3 (D2) PIN 4 = OUT4 (D3)

### Ambient conditions:

<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	°C	-25 ... +85
	°C	-40 ... +85
<b>Protection class IP</b>		IP67

### Mechanical data:

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

### Certificates/ approvals:

<b>AS-Interface certificate</b>		yes
<b>Approvals</b>		UL, CSA, shipbuilding

General Product Approval	Test Certificates	Shipping Approval
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[Special Test Certificate](#)



Shipping Approval	other
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[Confirmation](#)

other
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[Declaration of Conformity](#)

[Environmental Confirmations](#)

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### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**  
<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

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

**Cax online generator**

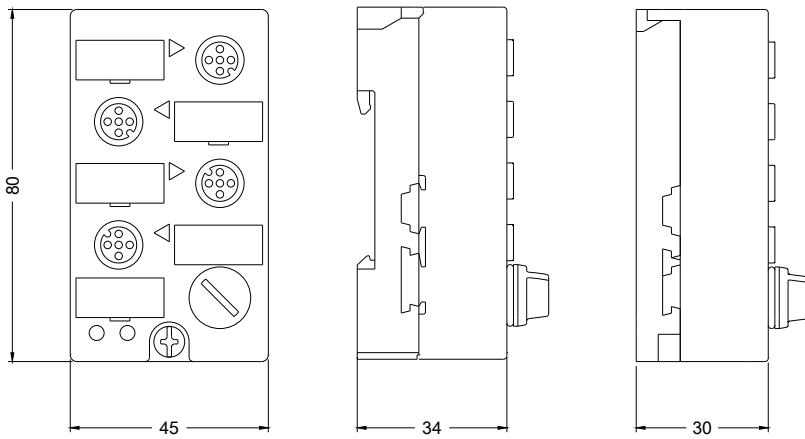
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK14001BQ200AA3>

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

<http://support.automation.siemens.com/WW/view/en/3RK14001BQ200AA3/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK14001BQ200AA3&lang=en>



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