

AS-INTERFACE COMP. MODULE K45, A/B SLAVE, DIG., 2A/2E, IP 67, 2 INPUTS, 2 OUTPUTS 4 X M12 SOCK. W. STD. ASSIGNM. MOUNTING PLATE 3RK1901-2EA00 OR ORDER 3RK1901-2DA00 SEPARATELY

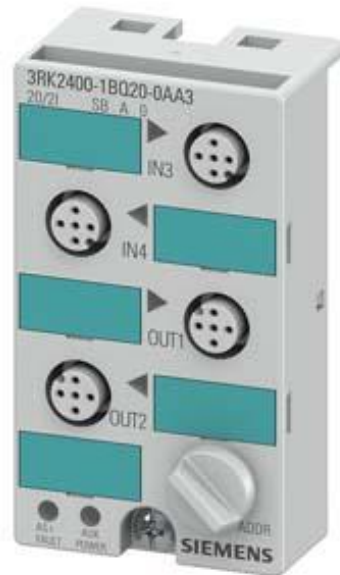


Figure similar

General technical data	
Design of the product	digital I/O modules for operation in the field, IP67 - K45
Type	2 outputs / 2 inputs
Design of the slave type	A/B slave
I/O configuration	B
ID/ID2 code	A/0
Number I/O sockets	4
Type of electrical connection of the inputs and outputs	M12 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	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	All K45 compact modules are delivered with stainless steel screws/sockets
Note 2	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 power supply	using AS-Interface
Input voltage	16.5 ... 30 V
Property of the sensor supply Short-circuit and overload resistant	Yes
Ampacity of the sensor supply for all inputs	
<ul style="list-style-type: none"> at ambient temperature 40 °C 	200 mA

Inputs

Number of digital inputs	2
Type of connection	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 2 PIN 3 PIN 4 PIN 5 	sensor supply L+ data input sensor supply L- data input ground terminal
Design of the pin assignment of the inputs	standard assignment

Outputs

Number of digital outputs	2
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	1.5 A
Outputs aggregate current	
<ul style="list-style-type: none"> max 	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"> • short-circuit protection • induction protection • watchdog 	<p>built-in</p> <p>built-in</p> <p>built-in</p>
Status display <ul style="list-style-type: none"> • display of I/Os • display of Uaux • display of AS-Interface/diagnostics 	<p>yellow LED</p> <p>green LED</p> <p>green/red dual LED</p>
Assignment of data bits <ul style="list-style-type: none"> • socket • socket 2 • socket 3 • socket 4 	<p>PIN 4/2 = IN3 (D2)</p> <p>PIN 4/2 = IN4 (D3)</p> <p>PIN 4 = OUT1 (D0)</p> <p>PIN 4 = OUT2 (D1)</p>

Ambient conditions

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

Mechanical data

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

Certificates/approvals

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

General Product Approval	Declaration of Conformity	Shipping Approval
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Shipping Approval	other
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LRS



PRS



RMRS



ASi

[Environmental Confirmations](#)

[Confirmation](#)

other

[Miscellaneous](#)

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2400-1BQ20-0AA3>

Cax online generator

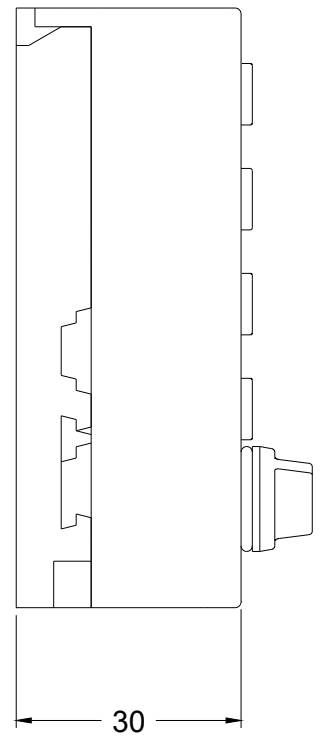
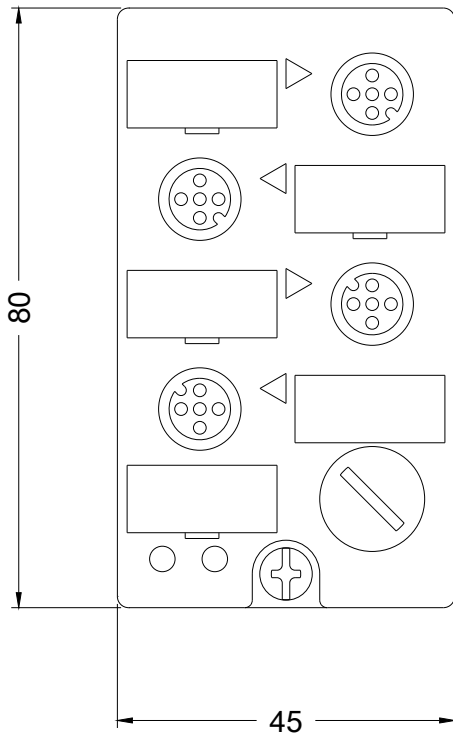
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-1BQ20-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1BQ20-0AA3>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-1BQ20-0AA3&lang=en



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