



AS-INTERFACE COMPACT MODULE K45, A/B SLAVE (SPEC. 3.0), IP67 DIGITAL, 4X(1DI/1DO), MAX. 500MA FOR ALL INPUTS MOUNTING PLATE 3RK19012EA00 OR 3RK19012DA00 TO BE ORDERED SEPARATELY

General technical data:

Design of the product		digital I/O modules for operation in the field, IP67 - K45
Type		4 x (1 input / 1 output)
Design of the slave type		A/B slave (Spec. 3.0)
I/O configuration		7
ID/ID2 code		A/7
Number I/O sockets		4
Type of electrical connection of the inputs and outputs		M12 screw-type terminals
AS interface total current input max	mA	45
operating voltage according to AS-Interface spezifikation	V	26.5 ... 31.6
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		This module requires a master according to AS-i specifications 3.0

Sensor supply:

Type of voltage supply for power supply		via AUX POWER
Input voltage	V	16.5 ... 30

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 	mA	650
<ul style="list-style-type: none"> • at ambient temperature 55 °C 	mA	500

Inputs:

Number of digital inputs		4
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	V	10
Input current at digital input		
<ul style="list-style-type: none"> • for signal <1> minimum 	mA	6
<ul style="list-style-type: none"> • with signal <0> maximum 	mA	1.5
Inputs socket assignment		
<ul style="list-style-type: none"> • PIN 1 • PIN 2 • PIN 3 • PIN 4 • PIN 5 		sensor supply L+ output sensor supply/outputs L- data input ground terminal
Design of the pin assignment of the inputs		Y assignment

Outputs:

Number of digital outputs		4
Type of voltage of output voltages		DC
Outputs external power supply 24 V DC		using black AS-Interface flat cable
Output current at digital output for signal <1> Rated value	A	0.5
Outputs aggregate current		
<ul style="list-style-type: none"> • max 	A	1.5
<ul style="list-style-type: none"> • at Tu=40 °C max 	A	2.5
Type of switching output		PNP transistor
Design of the pin assignment of the outputs		Y assignment
Outputs socket assignment		3 = "-", 2 = 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 		built-in built-in built-in
Status display		
<ul style="list-style-type: none"> • display of I/Os • display of Uaux • display of AS-Interface/diagnostics 		yellow LED green LED green/red dual LED

Assignment of data bits		
<ul style="list-style-type: none"> • socket • socket 2 • socket 3 • socket 4 		PIN 4 = IN1 (D0), PIN 2 = OUT1 (D0) PIN 4 = IN2 (D1), PIN 2 = OUT2 (D1) PIN 4 = IN3 (D2), PIN 2 = OUT3 (D2) PIN 4 = IN2 (D1), PIN2 = OUT4 (D3)

Ambient conditions:

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




Mechanical data:

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

Certificates/ approvals:

AS-Interface certificate		requested
Approvals		UL and CSA requested

General Product Approval			Shipping Approval		
 CSA	 GOST	 UL	 EAC	 ABS	 DNV

Shipping Approval	other				
 LRS	 PRS	 RMRS	Confirmation	Declaration of Conformity	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/industrymall>

Cax online generator

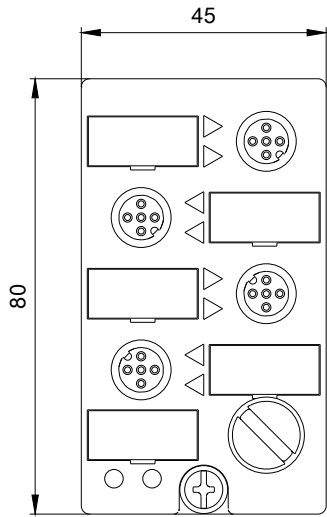
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK24001GQ201AA3>

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

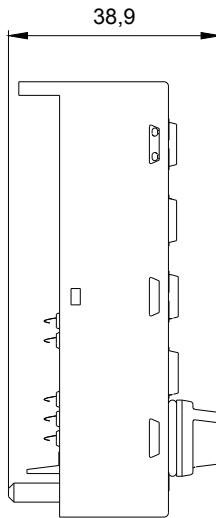
<http://support.automation.siemens.com/WW/view/en/3RK24001GQ201AA3/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK24001GQ201AA3&lang=en>



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