

AS-i compact module K45 digital 2 DI/2 DQ, IP67 2 x input, maximum 200 mA 2 x output, 2 A 24 V DC maximal 3 A for all outputs 4 x M12 socket Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 is to be ordered separately

General technical data	
design of the product	digital I/O modules for operation in the field, IP67 - K45
Type	2 inputs / 2 outputs
design of the slave type	standard slave
I/O configuration	3
ID/ID2 code	0/F
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	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	20 ... 30 V
property of the sensor supply short-circuit and overload resistant	Yes
ampacity of the sensor supply for all inputs	
• at ambient temperature 40 °C	200 mA
Inputs	
number of digital inputs	2
type of connection technology	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	
• for signal <1> minimum	6 mA
• with signal <0> maximum	1.5 mA
Inputs sensor supply using AS-Interface	short-circuit and overload resistant
Inputs socket assignment	
• PIN 1	sensor supply L+
• PIN 2	data input
• PIN 3	sensor supply L-
• PIN 4	data input
• PIN 5	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		2 A			
Outputs aggregate current		3 A			
• max					
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		built-in built-in built-in			
• short-circuit protection					
• induction protection					
• watchdog					
Display					
Status display		yellow LED green LED green/red dual LED			
• display of I/Os					
• display of Uaux					
• display of AS-Interface/diagnostics					
Assignment of the data bits					
Assignment of data bits		PIN 4/2 = IN1 (D0) PIN 4/2 = IN2 (D1) PIN 4 = OUT3 (D2) PIN 4 = OUT4 (D3)			
• socket					
• socket 2					
• socket 3					
• socket 4					
Ambient conditions					
ambient temperature		-25 ... +85 °C -40 ... +85 °C			
• during operation					
• during storage					
protection class IP		IP67			
Mechanical data					
width		45 mm			
height		80 mm			
depth		30 mm			
fastening method		standard rail mounting/wall mounting using mounting plate for K45 compact module			
shock resistance		15g / 11 ms			
Certificates/ approvals					
General Product Approval		EMC	Declaration of Con- formity		
	Confirmation				
Declaration of Con- formity		Test Certificates	Marine / Shipping		
	Special Test Certificate				
Marine / Shipping		other			



[Confirmation](#)

[Miscellaneous](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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?mlfb=3RK1400-1BQ20-0AA3>

Cax online generator

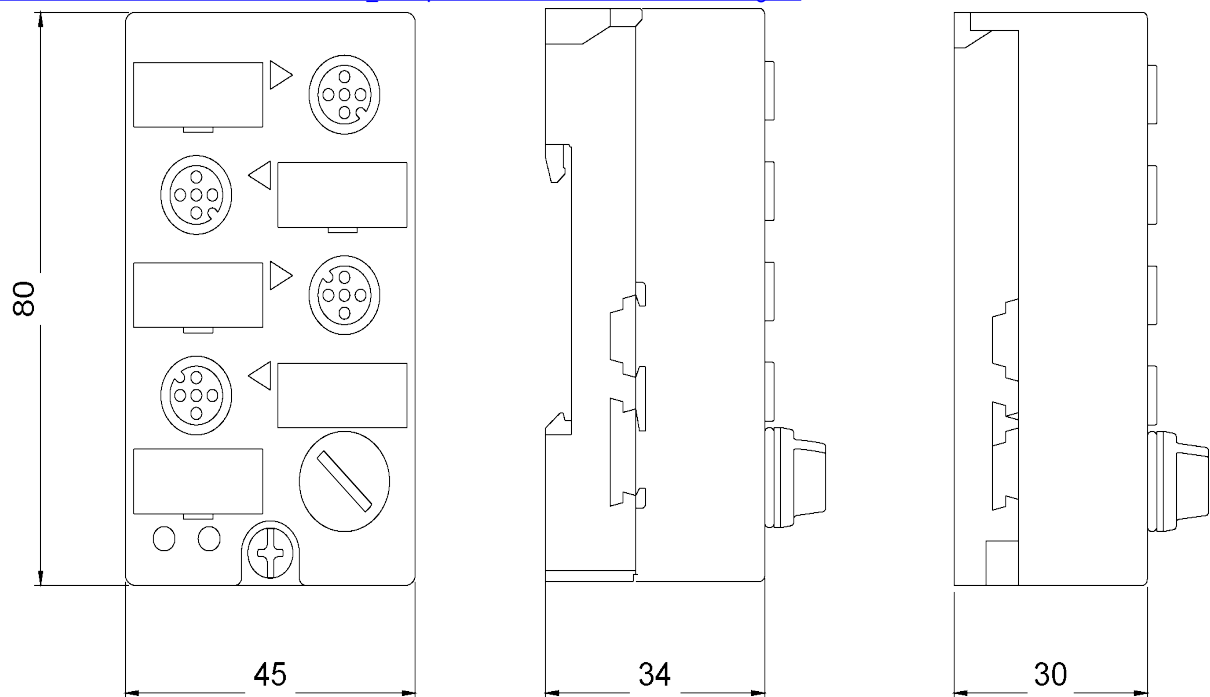
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1400-1BQ20-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1400-1BQ20-0AA3>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1400-1BQ20-0AA3&lang=en



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