



AS-i compact module K45 digital 2 DI/2 DO, 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		
• 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		
• short-circuit protection	built-in	
• induction protection	built-in	
• watchdog	built-in	
Display		
Status display		
• display of I/Os	yellow LED	
• display of Uaux	green LED	
• display of AS-Interface/diagnostics	green/red dual LED	
Assignment of the data bits		
Assignment of data bits		
• socket	PIN 4/2 = IN1 (D0)	
• socket 2	PIN 4/2 = IN2 (D1)	
• socket 3	PIN 4 = OUT3 (D2)	
• socket 4	PIN 4 = OUT4 (D3)	
Ambient conditions		
ambient temperature		
• during operation	-25 ... +85 °C	
• during storage	-40 ... +85 °C	
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 Conformity

[Confirmation](#)



Test Certificates

Marine / Shipping

other

[Special Test Certificate](#)



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

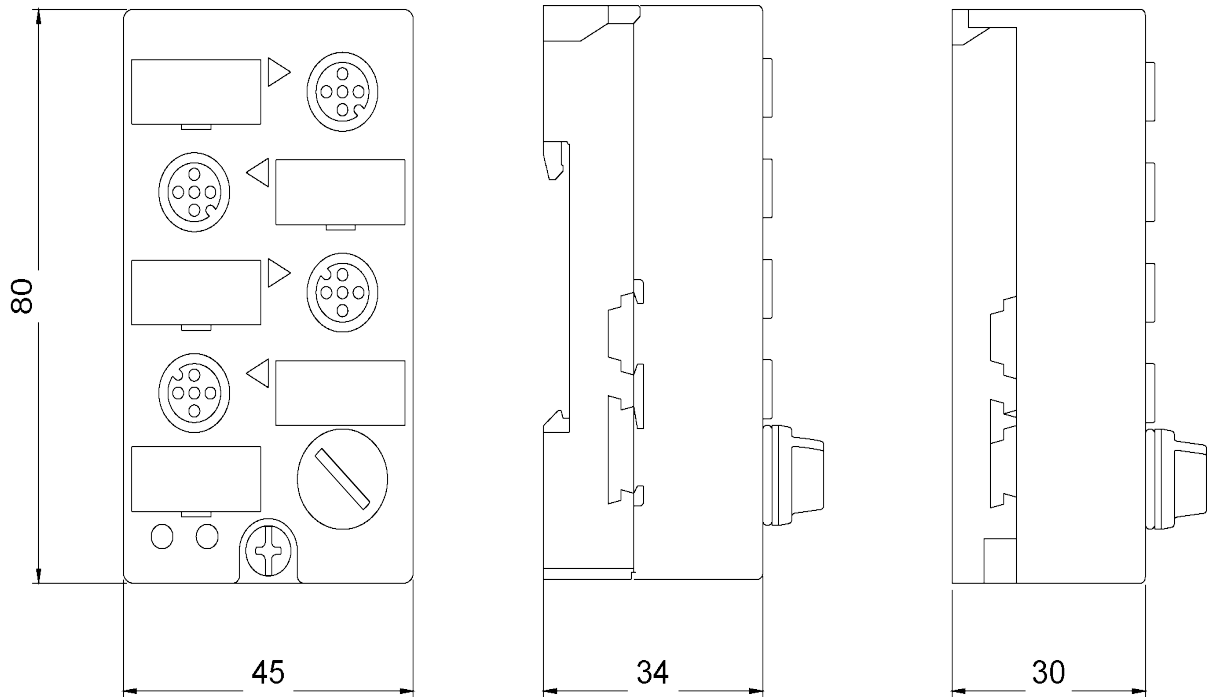
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1400-1BQ20-0AA3>

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



last modified:

9/5/2023