



AS-i compact module K45 digital 2 x (1 DI/1 DQ), IP67 2 x 1 input/1 output 2 x M12 socket Total current for all inputs and outputs max. 200 mA Supply I/O via U_AS! 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, IP65 - K45
Type	2 x (1 input / 1 output)
design of the slave type	standard slave
I/O configuration	3
ID/ID2 code	F/F
Number I/O sockets	2
type of electrical connection of the inputs and outputs	M12 screw-type terminals
AS interface total current input max	270 mA
Total current for all inputs and outputs	200 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 2	The maximum current carrying capacity per module for all inputs and all outputs is 200 mA.
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	
<ul style="list-style-type: none"> 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	
<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+ output sensor supply/outputs L- data input ground terminal

design of the pin assignment of the inputs	Y assignment	
Outputs		
number of digital outputs	2	
type of voltage of output voltages	DC	
Outputs external power supply 24 V DC	not required	
ampacity of the semiconductor output at DC-13 at 24 V	0.2 A	
Outputs aggregate current		
• max	0.2 A	
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	
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	not required	
• display of AS-Interface/diagnostics	green/red dual LED	
Assignment of the data bits		
Assignment of data bits		
• socket	PIN 4 = IN1 (D0), PIN 2 = OUT3 (D2)	
• socket 2	not available	
• socket 3	not available	
• socket 4	PIN 4 = IN2 (D1), PIN2 = 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
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[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=3RK1400-0GQ20-0AA3>

Cax online generator

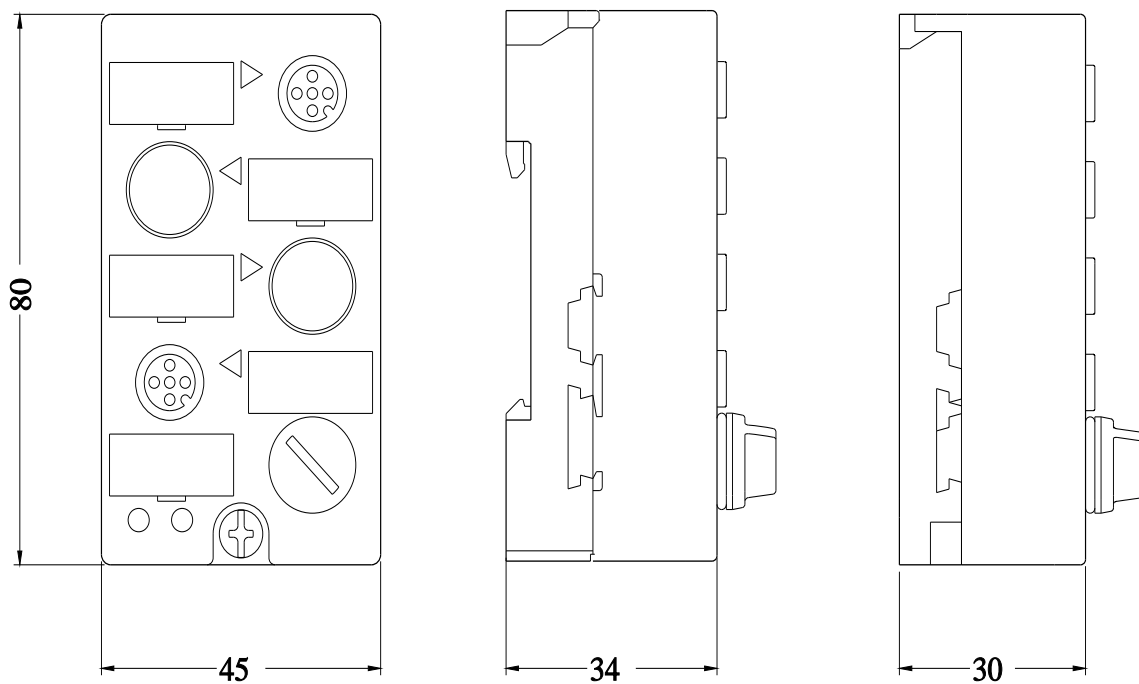
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1400-0GQ20-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1400-0GQ20-0AA3>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1400-0GQ20-0AA3&lang=en



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