



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_ASI 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 spezifikation	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	
• 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	output
• PIN 3	sensor supply/outputs L-
• PIN 4	data input
• PIN 5	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

[Special Test Certificate](#)



Marine / Shipping other



[Confirmation](#)

[Miscellaneous](#)

Further information

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

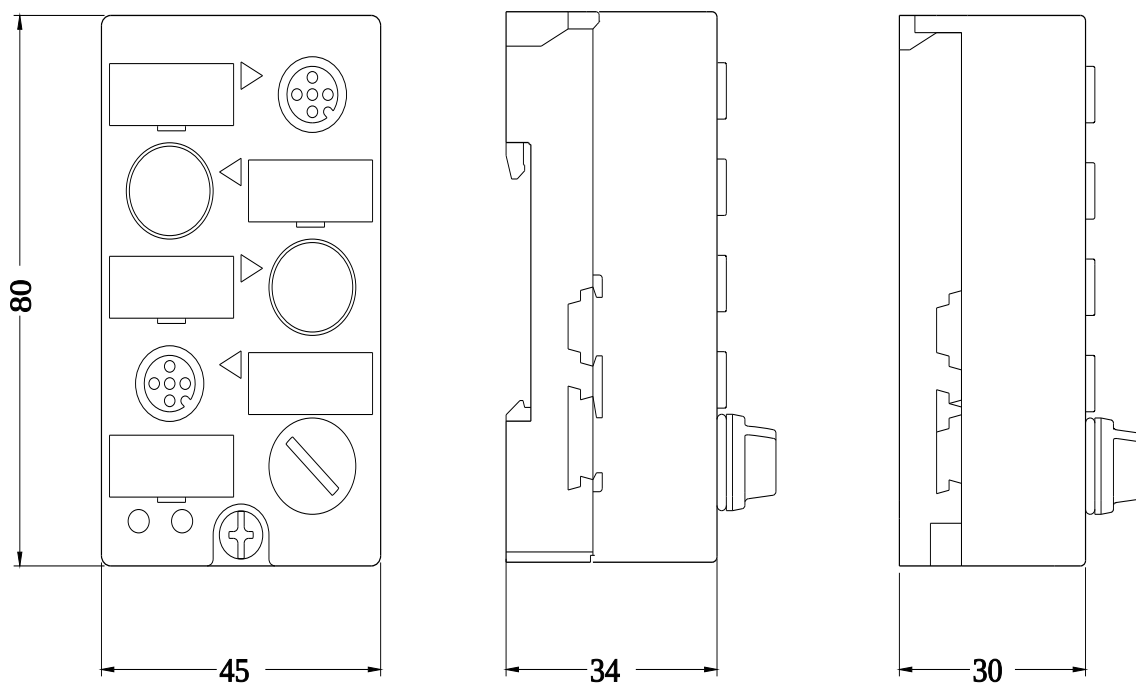
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1400-0GQ20-0AA3>

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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