

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	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 - with signal <0> maximum	6 mA 1.5 mA
Inputs sensor supply using AS-Interface	short-circuit and overload resistant
Inputs socket assignment - 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 assignement
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 assignement
Outputs socket assignment	3 = "-", 2 = output, 5 = ground terminal
Outputs - short-ciruit protection - induction protection - watchdog	built-in built-in built-in
Display	
Status display	

- display of I/Os
- display of Uaux
- display of AS-Interface/diagnostics

yellow LED
not required
green/red dual LED

Assignment of the data bits

Assignment of data bits

- socket
- socket 2
- socket 3
- socket 4

PIN 4 = IN1 (D0), PIN 2 = OUT3 (D2)
not available
not available
PIN 4 = IN2 (D1), PIN2 = OUT4 (D3)

Ambient conditions

Ambient temperature

- during operation
- during storage

-25 ... +85 °C
-40 ... +85 °C

Protection class IP

IP67

Mechanical data

Width

45 mm

Height

80 mm

Depth

30 mm

Mounting type

standard rail mounting/wall mounting using mounting plate for K45 compact module

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity



[Miscellaneous](#)

Test Certificates

Shipping Approval

[Special Test Certificate](#)



Shipping Approval

other



[Confirmation](#)

[Miscellaneous](#)

Further information

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

