

AS-i compact module K45 digital A/B slave, 4 DQ, IP67 4 x output, 1 A 24 V DC maximal 3 A for all outputs 4 x M12 socket Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 must be ordered separately

General technical data

design of the product	digital I/O modules for operation in the field, IP67 - K45
Type	4 outputs
design of the slave type	A/B slave (Spec. 3.0)
I/O configuration	7
ID/ID2 code	A/7
Number I/O sockets	4
type of electrical connection of the inputs and outputs	M12 screw-type terminals
AS interface total current input max	45 mA
operating voltage according to AS-Interface specification	18 ... 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.
Note 2	This module requires a master according to AS-i specifications 3.0

Sensor supply

input voltage	16.5 ... 30 V
ampacity of the sensor supply for all inputs	
• at ambient temperature 40 °C	200 mA

Inputs

number of digital inputs	0
Input circuit	PNP transistor
Inputs socket assignment	
• PIN 5	ground terminal

Outputs

number of digital outputs	4
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	1 A
Outputs aggregate current	
• max	3 A
type of switching output	PNP transistor
design of the pin assignment of the outputs	standard assignement
Outputs socket assignment	3 = "-", 4 = output, 5 = ground terminal
property of the output short-circuit proof	Yes
Outputs	

- short-circuit 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
green LED
green/red dual LED

Assignment of the data bits

Assignment of data bits

- socket
- socket 2
- socket 3
- socket 4

PIN 4 = OUT1 (D0)
PIN 4 = OUT2 (D1)
PIN 4 = OUT3 (D2)
PIN 4 = 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

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](#)



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=3RK2100-1CQ20-0AA3>

Cax online generator

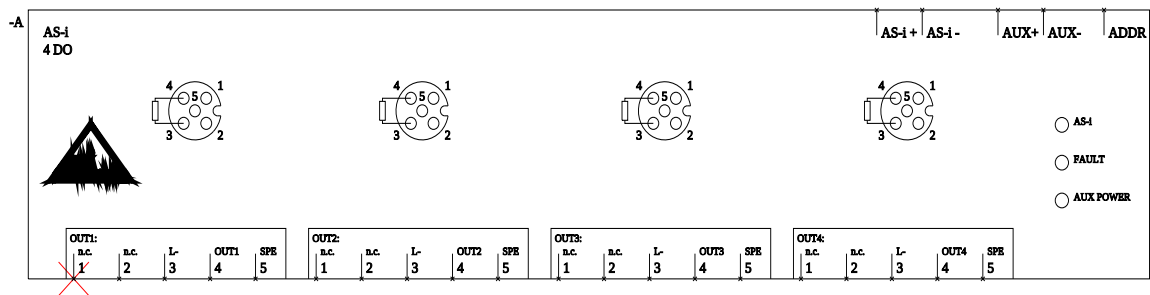
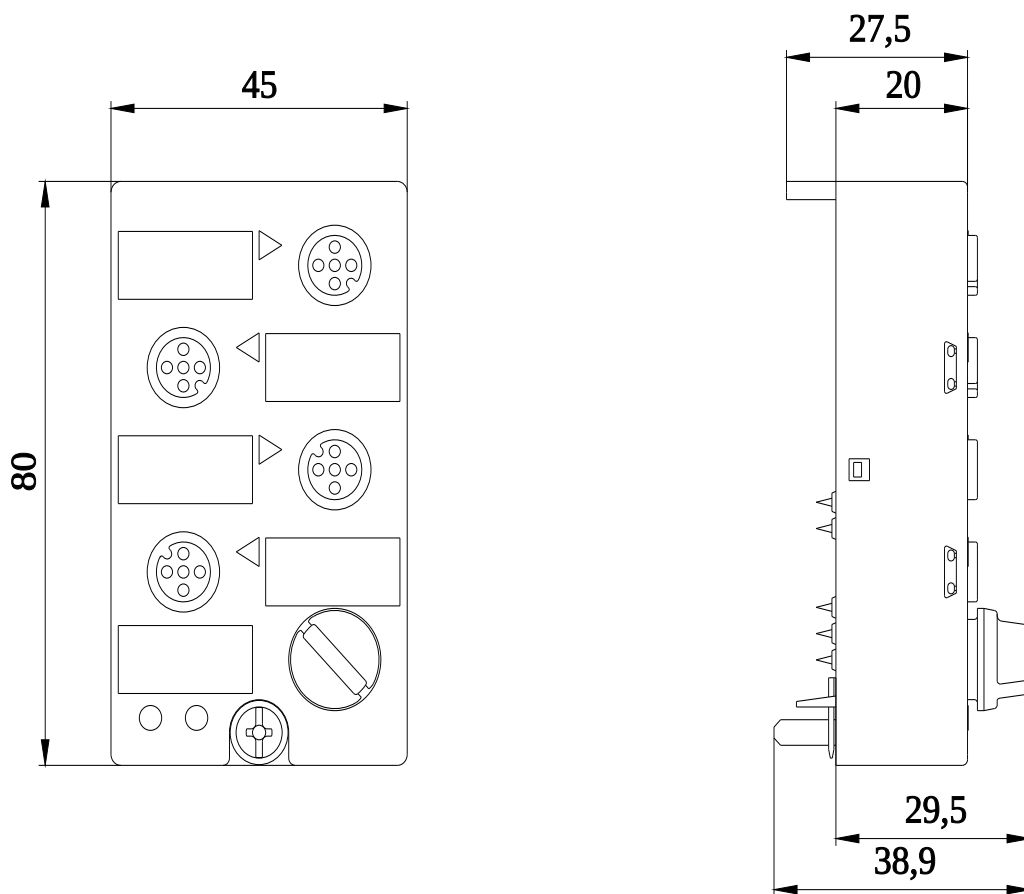
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2100-1CQ20-0AA3>

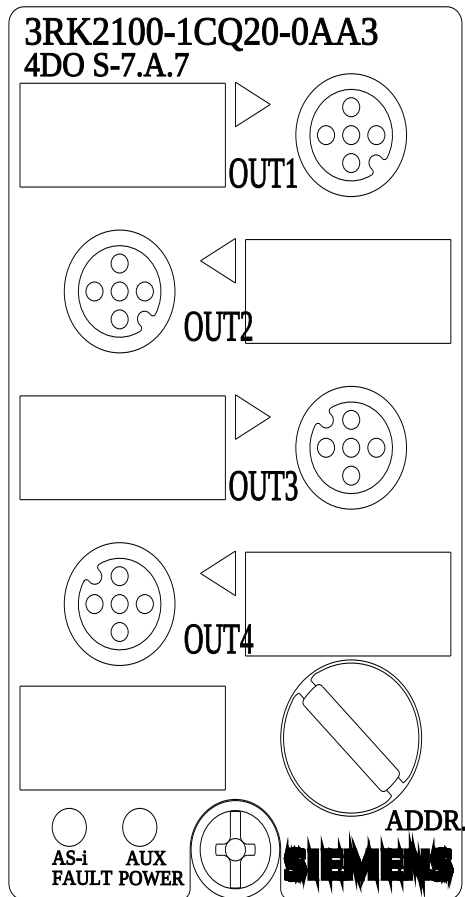
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2100-1CQ20-0AA3>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2100-1CQ20-0AA3&lang=en





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