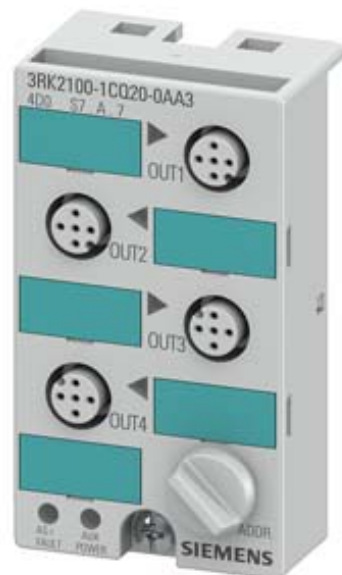


AS-i compact module K45 digital A/B slave, 4 DQ, IP67 4 x output, 1 A 24 V DC maximal 3 A for all outputs 4 x M12 socket Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 must be ordered separately



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
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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 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 = OUT1 (D0)
socket 2	PIN 4 = OUT2 (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

Mounting type

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

Certificates/approvals

General Product Approval



[Miscellaneous](#)

Shipping Approval



[Confirmation](#)

[Miscellaneous](#)

other

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2100-1CQ20-0AA3>

Cax online generator

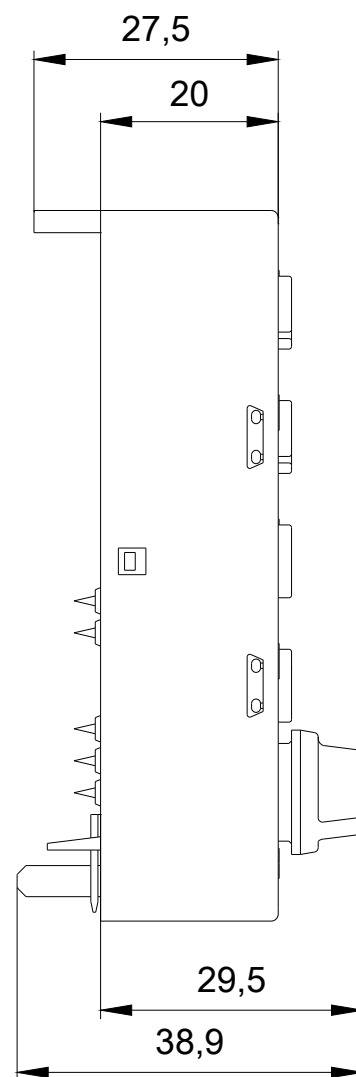
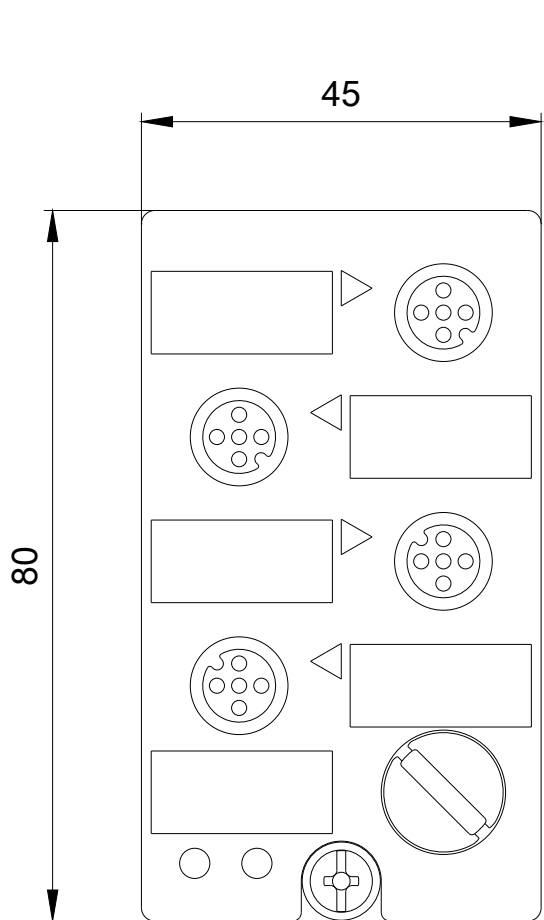
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2100-1CQ20-0AA3>

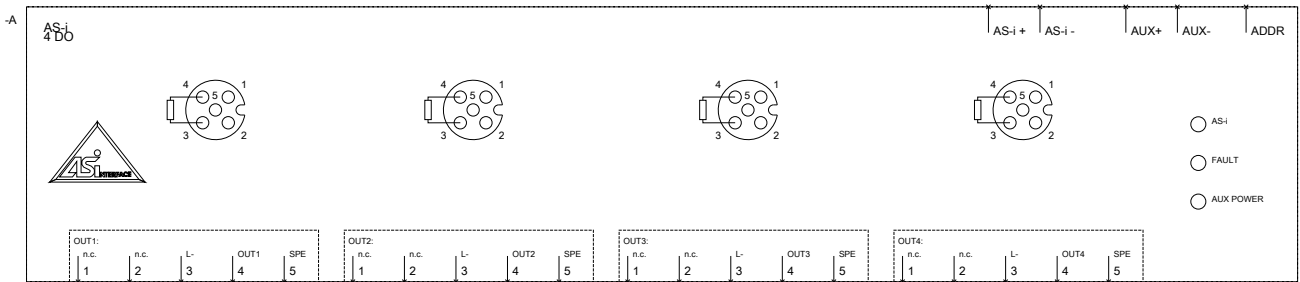
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<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, ...)

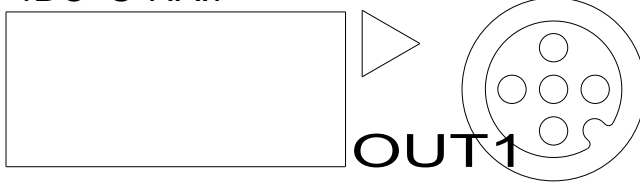
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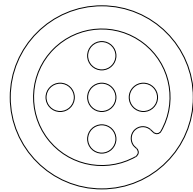


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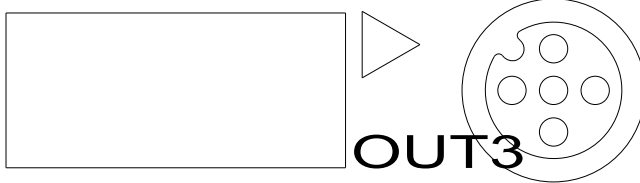
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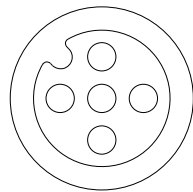
OUT1



OUT2



OUT3



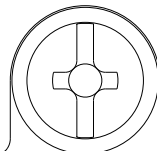
OUT4



AS-i
FAULT



AUX
POWER



SIEMENS

ADDR.

last modified:

10/22/2019