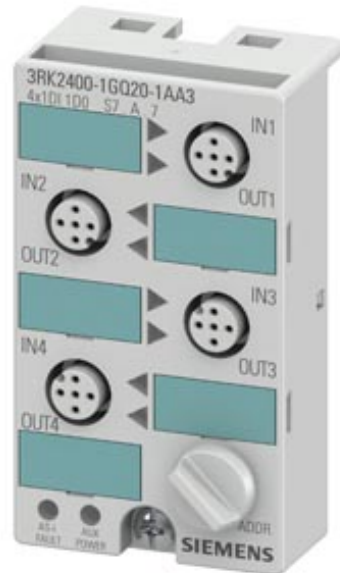


AS-i compact module K45 digital A/B slave 4 x (1 DI/1 DQ), IP67 4 x 1 input / 1 output 4 x M12 socket Total current for all inputs and outputs max. 500 mA Supply I/O from 24 V DC Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 is to be ordered separately



General technical data	
Design of the product	digital I/O modules for operation in the field, IP67 - K45
Type	4 x (1 input / 1 output)
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	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	This module requires a master according to AS-i specifications 3.0

Sensor supply

Type of voltage supply for power supply	via AUX POWER
Input voltage	16.5 ... 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 at ambient temperature 55 °C 	650 mA 500 mA

Inputs

Number of digital inputs	4
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	
<ul style="list-style-type: none"> for signal <1> minimum with signal <0> maximum 	6 mA 1.5 mA
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 assignement

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	0.5 A
Outputs aggregate current	
<ul style="list-style-type: none"> max at Tu=40 °C max 	1.5 A 2.5 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
Property of the output Short-circuit proof	Yes
Outputs	
<ul style="list-style-type: none"> short-circuit protection induction protection watchdog 	built-in built-in built-in

Display

Status display	
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- 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 = IN1 (D0), PIN 2 = OUT1 (D0)
PIN 4 = IN2 (D1), PIN 2 = OUT2 (D1)
PIN 4 = IN3 (D2), PIN 2 = OUT3 (D2)
PIN 4 = IN4 (D3), PIN 2 = 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



CSA



UL



RCM



EG-Konf.

[Miscellaneous](#)

Shipping Approval



ABS



LRS



PRS



RMRS



ASi

other

[Confirmation](#)

other

[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=3RK2400-1GQ20-1AA3>

Cax online generator

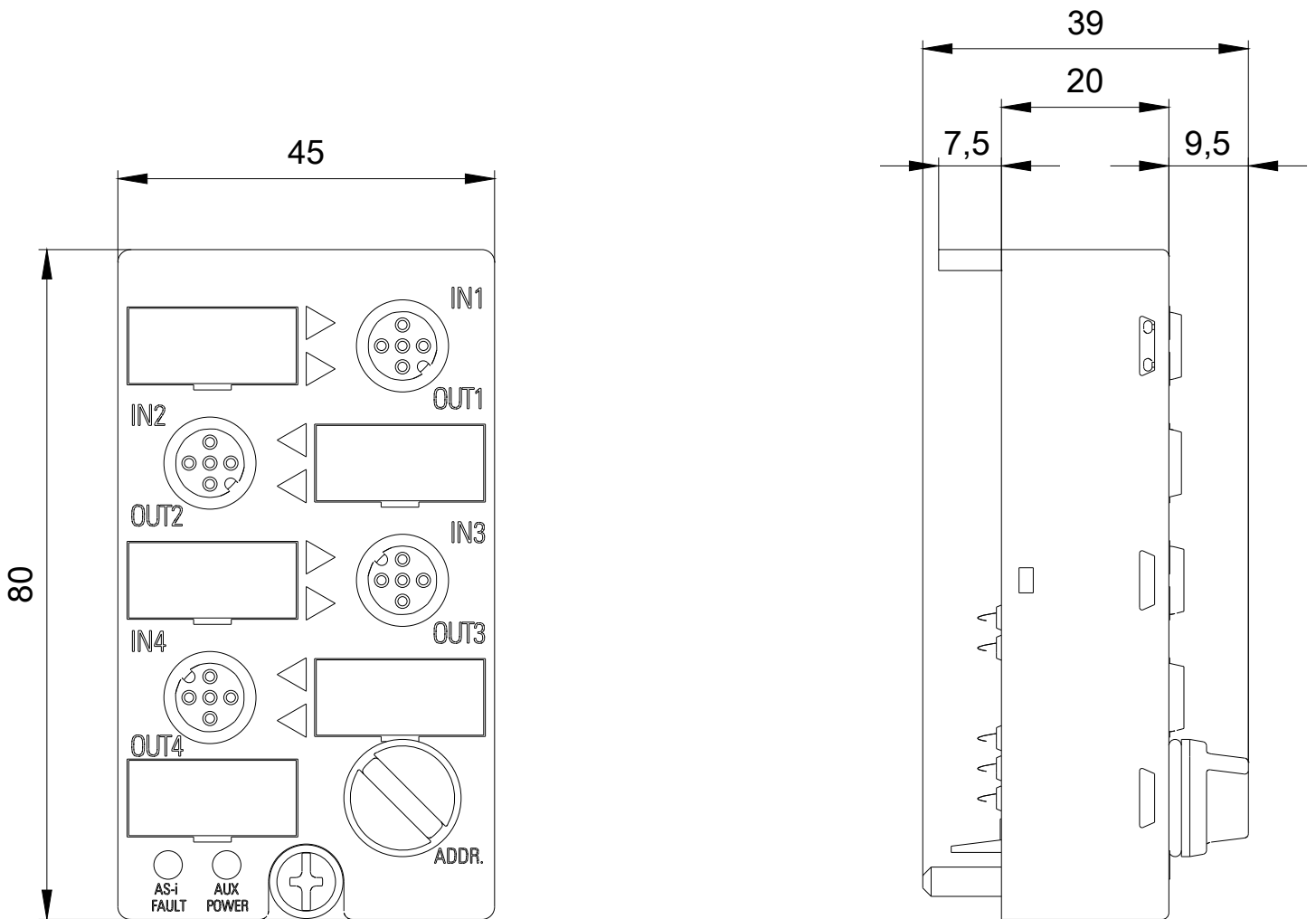
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-1GQ20-1AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1GQ20-1AA3>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-1GQ20-1AA3&lang=en



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09/24/2020