

AS-i compact module K45 digital A/B device, 8 DI, IP67, 4 x 2 inputs, maximum 200 mA 4 x M12 socket with Y-assignment 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	8 inputs
design of the slave type	A/B slave
I/O configuration	0
ID/ID2 code	A/0
Number I/O sockets	8
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 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 double-addressing socket
AS interface Connection Polarity reversal protection	built-in
Delivery note	the modules are delivered without mounting plate
Note 1	Module needs two addresses
Note 2	The maximum current carrying capacity per module for all inputs and sensor supply is 200 mA

Sensor supply

type of voltage supply for sensor supply	using AS-Interface
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 at ambient temperature 40 °C	200 mA

Inputs

number of digital inputs	8
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 - 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	sensor supply L+ data input 2 sensor supply L- data input 1

• PIN 5	ground terminal	
design of the pin assignment of the inputs	Y assignment	
Outputs		
number of digital outputs	0	
Outputs external power supply 24 V DC	not required	
Display		
Status display		
• display of I/Os	yellow LED	
• display of Uaux	not required	
• display of AS-Interface/diagnostics	green/red dual LED (2 diodes)	
Assignment of the data bits		
Assignment of data bits		
• socket	PIN 4 = IN1 (D0), PIN 2 = IN2 (D1) / Addr.1	
• socket 2	PIN 4 = IN3 (D2), PIN 2 = IN4 (D3) / Addr.1	
• socket 3	PIN 4 = IN1 (D0), PIN 2 = IN2 (D1) / Addr.2	
• socket 4	PIN 4 = IN3 (D2), PIN 2 = IN4 (D3) / Addr.2	
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	EMV	Maritime application



other	Environment	Industrial Communication
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[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)



ASi

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RK2200-0DQ20-0AA3>

Cax online generator

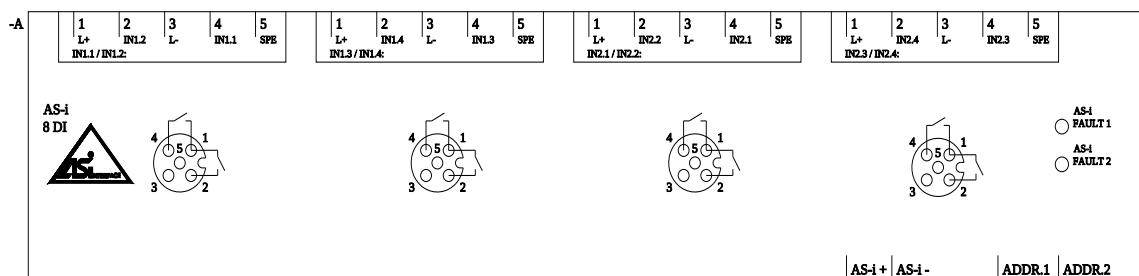
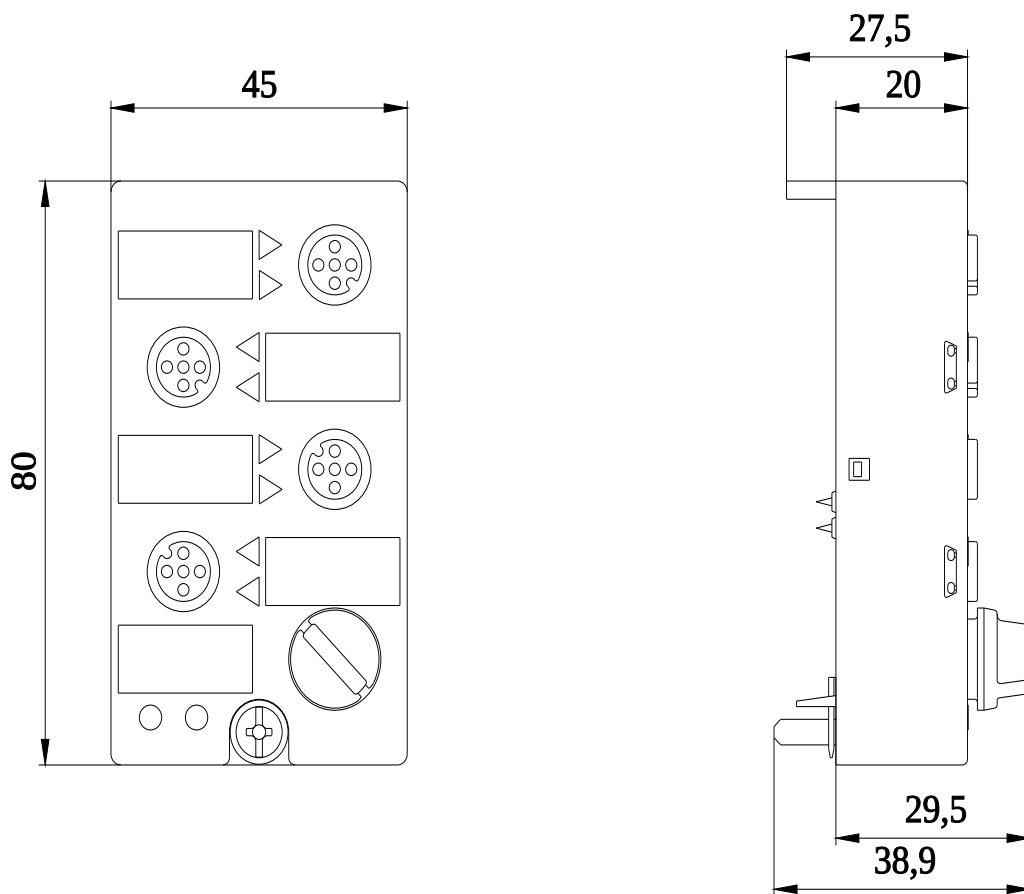
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2200-0DQ20-0AA3>

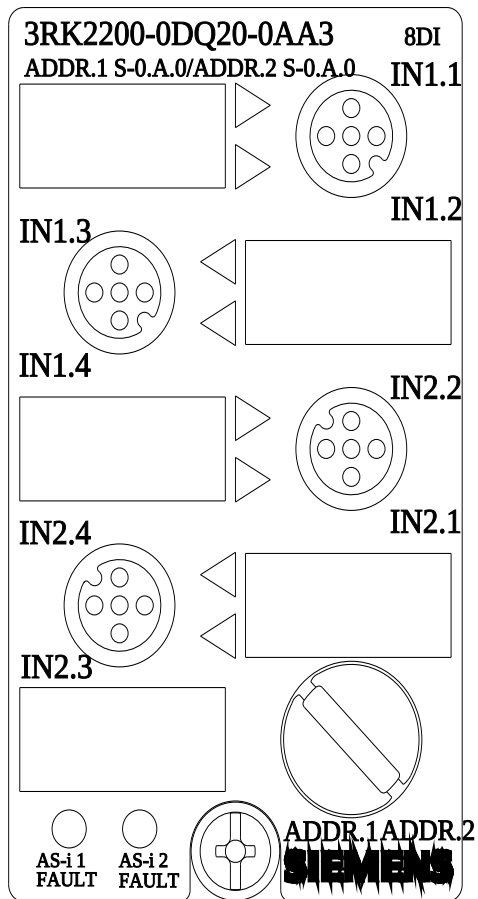
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2200-0DQ20-0AA3>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2200-0DQ20-0AA3&lang=en





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