

AS-i compact module K45 digital A/B slave, 8 DI, IP67 4 x 2 inputs, max. 200 mA 4 x M12 socket with Y assignment Mounting plate 3RK1901-2EA00 or mounting plate 3RK191-2DA00 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 power 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	6 mA
• with signal <0> maximum	1.5 mA
Inputs sensor supply using AS-Interface	short-circuit and overload resistant
Inputs socket assignment	
• PIN 1	sensor supply L+
• PIN 2	data input 2
• PIN 3	sensor supply L-
• PIN 4	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 • display of Uaux • display of AS-Interface/diagnostics	yellow LED not required green/red dual LED (2 diodes)
---	---

Assignment of the data bits

Assignment of data bits • socket • socket 2 • socket 3 • socket 4	PIN 4 = IN1 (D0), PIN 2 = IN2 (D1) / Addr.1 PIN 4 = IN3 (D2), PIN 2 = IN4 (D3) / Addr.1 PIN 4 = IN1 (D0), PIN 2 = IN2 (D1) / Addr.2 PIN 4 = IN3 (D2), PIN 2 = IN4 (D3) / Addr.2
---	--

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

 LRS	 PRS	 RMRS	 DNV-GL	 ASi	Confirmation
---------	---------	----------	------------	---------	------------------------------

other

[Miscellaneous](#)

Further information

Information on the packaging

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

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

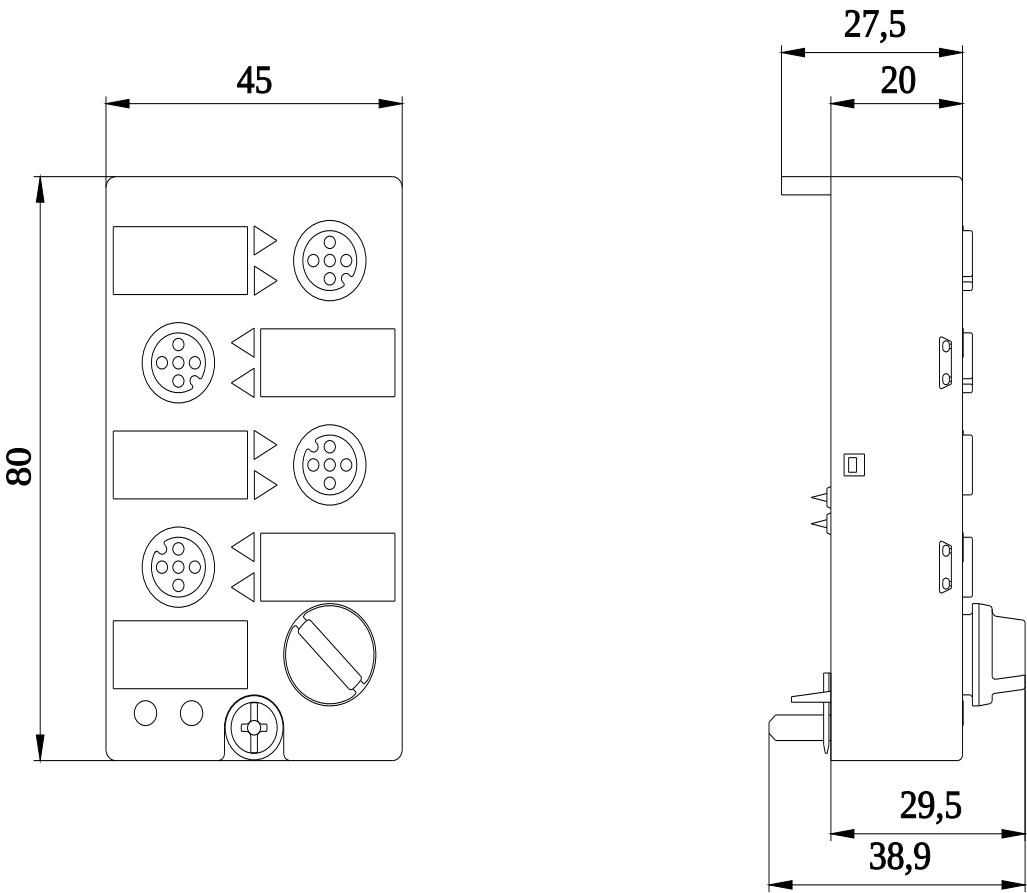
<https://www.siemens.com/ic10>

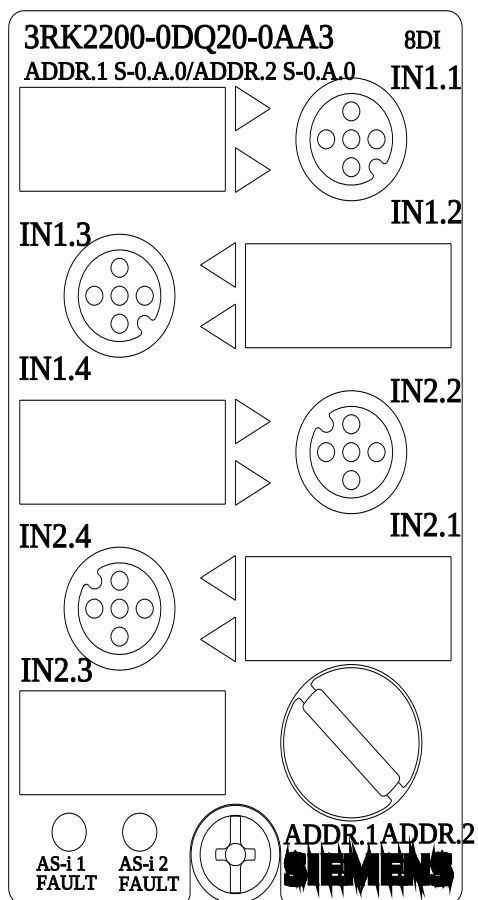
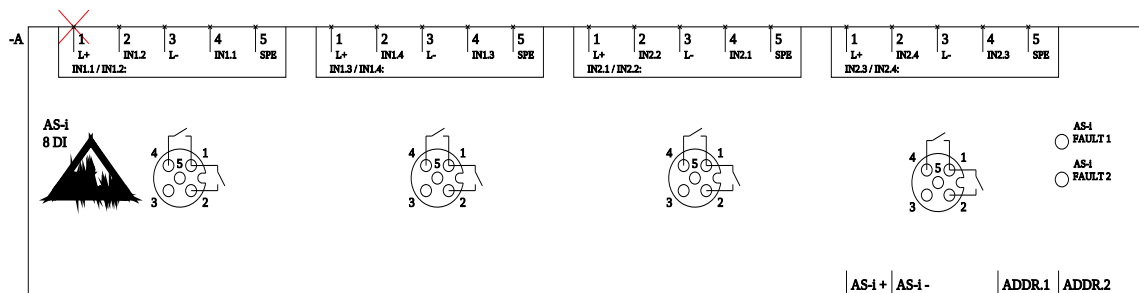
Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2200-0DQ20-0AA3>

Cax online generator

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





last modified:

3/11/2021