



AS-i compact module K20 digital A/B slave, 4 DQ, IP67 4 x output, 1 A 24 V DC max. 1 A for all outputs 4 x M8 socket

General technical data	
design of the product	digital I/O modules for operation in the field, IP67 - K20
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	M8 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	not available
Addressing	using M12 female connector
AS interface Connection Polarity reversal protection	built-in
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
Inputs	
number of digital inputs	0
Input circuit	PNP transistor
Outputs	
number of digital outputs	4
type of voltage of output voltages	DC
Outputs external power supply 24 V DC	shared round cable connection with AS-Interface connection through M12 female connector
ampacity of the semiconductor output at DC-13 at 24 V	1 A
Outputs aggregate current	
• max	2 A
• at Tu=40 °C max	2 A
type of switching output	PNP transistor
design of the pin assignment of the outputs	standard assignment
Outputs socket assignment	3 = "-", 4 = output
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
- 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 ... +70 °C  
 -40 ... +85 °C

##### protection class IP

IP67

#### Mechanical data

##### width

20 mm

##### height

108 mm

##### depth

45 mm

##### fastening method

no mounting plate required

##### shock resistance

15g / 11 ms

#### Certificates/ approvals

General Product Approval

EMV



[KC](#)

Test Certificates

Maritime application

other

Environment

[Special Test Certificate](#)



[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

#### Industrial Communication



#### 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=3RK2100-1CT30-0AA3>

##### Cax online generator

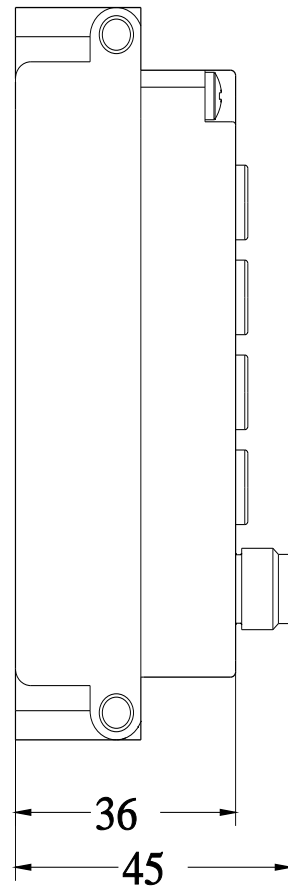
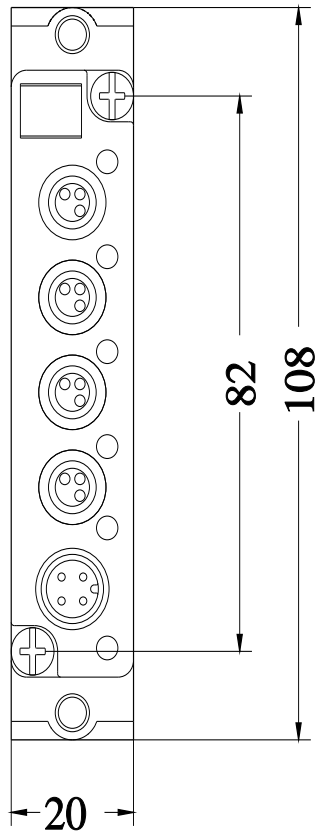
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2100-1CT30-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2100-1CT30-0AA3>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK2100-1CT30-0AA3&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2100-1CT30-0AA3&lang=en)



last modified:

4/1/2025 