



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

Figure similar

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	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 ... +70 °C
• during storage	-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	EMC	Declaration of Conformity
Confirmation		
		
		

Test Certificates	Marine / Shipping	other
Special Test Certificate		
		Confirmation
		Miscellaneous
		Miscellaneous

Further information

Siemens has decided to exit the Russian market (see here).
<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.
 Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>

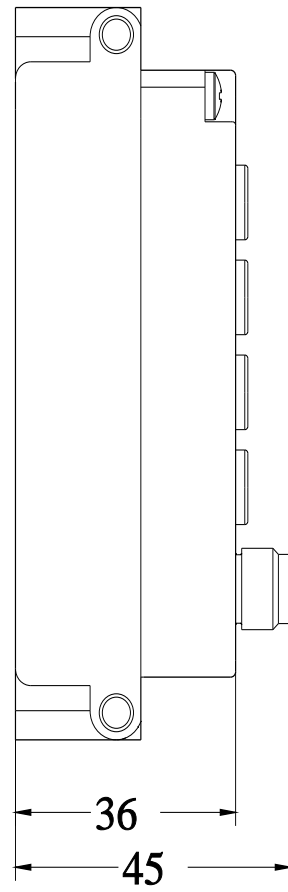
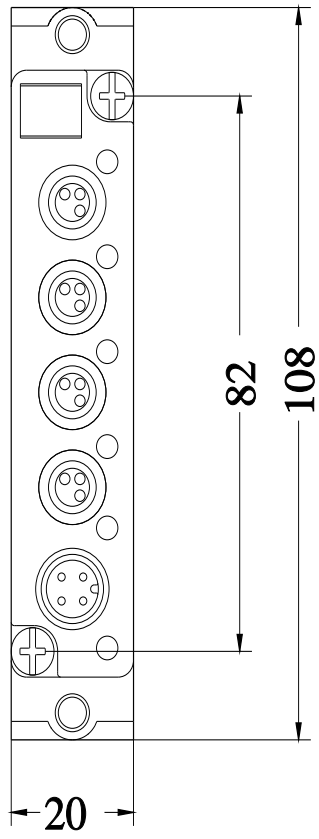
Information- and Downloadcenter (Catalogs, Brochures,...)
<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2100-1CT30-0AA3>

Cax online generator
<http://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, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2100-1CT30-0AA3&lang=en



last modified:

9/5/2023 