

AS-i compact module K20 digital A/B slave, 2 DI/2 DQ, IP67 2 x input, maximum 150 mA 2 x output, 1 A 24 V DC max. 1 A for all outputs 2 x M12 sockets with Y assignment



General technical data	
Design of the product	digital I/O modules for operation in the field, IP67 - K20
Type	2 outputs / 2 inputs
Design of the slave type	A/B slave
I/O configuration	B
ID/ID2 code	A/2
Number I/O sockets	2
Type of electrical connection of the inputs and outputs	M12 screw-type terminals
AS interface total current input max	270 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.

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	150 mA
• at ambient temperature 55 °C	70 mA

Inputs

Number of digital inputs	2
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	
• 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
Design of the pin assignment of the inputs	Y assignement

Outputs

Number of digital outputs	2
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	1 A
Type of switching output	PNP transistor
Design of the pin assignment of the outputs	Y assignement
Outputs socket assignment	2 = output 2, 3 = "-", 4 = output 1
Property of the output Short-circuit proof	Yes
Outputs	
• short-ciruit protection	built-in
• induction protection	built-in
• watchdog	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 = IN3 (D2), PIN 2 = IN4 (D3)
PIN 4 = OUT1 (D0), PIN 2 = OUT2 (D1)
not available
not available

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

Mounting type

no mounting plate required

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity



[Miscellaneous](#)

Test Certificates

Shipping Approval

[Special Test Certificate](#)



other

[Confirmation](#)

[Miscellaneous](#)



ASi

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=3RK2400-1BQ30-0AA3>

Cax online generator

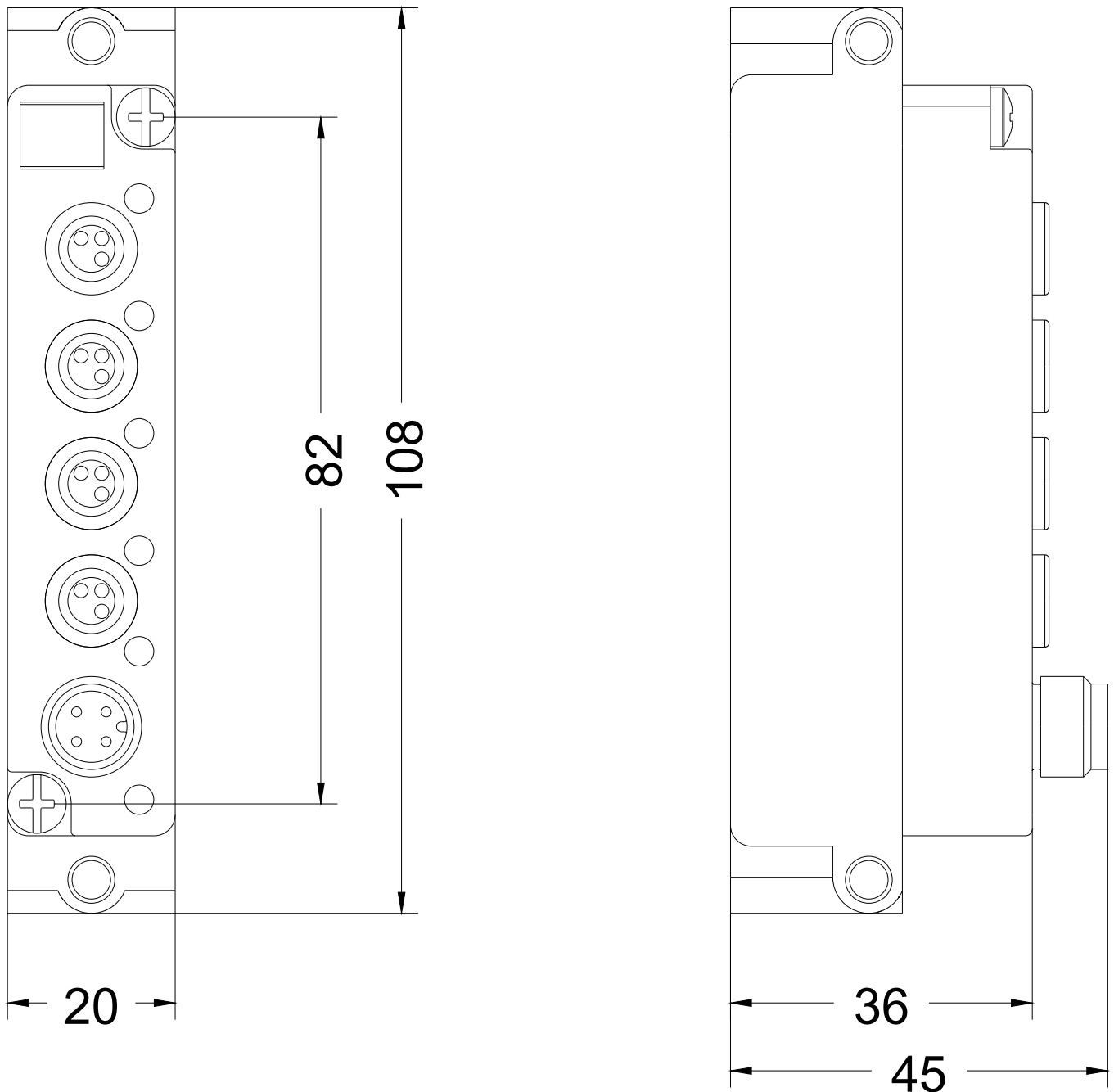
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-1BQ30-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1BQ30-0AA3>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-1BQ30-0AA3&lang=en



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