

AS-i compact module K20 digital A/B slave, 4 DI/4 DQ, IP67 4 x input, maximum 200 mA 4 x output, 1 A, 24 V DC maximal 2 A for all outputs 8 x M8 sockets



General technical data	
Design of the product	digital I/O modules for operation in the field, IP67 - K20
Type	4 outputs / 4 inputs
Design of the slave type	A/B slave (Spec. 3.0)
I/O configuration	7
ID/ID2 code	A/7
Number I/O sockets	8
Type of electrical connection of the inputs and outputs	M8 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.
Note 2	This module requires a master according to AS-i specifications 3.0

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
• at ambient temperature 55 °C	150 mA

Inputs	
Number of digital inputs	4
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 3	sensor supply L-
• PIN 4	data input
Design of the pin assignment of the inputs	standard assignment

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 = "-", 2 = 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 = IN1 (D0)
• socket 2	PIN 4 = IN2 (D1)
• socket 3	PIN 4 = IN3 (D2)
• socket 4	PIN 4 = IN4 (D3)
• socket 5	PIN 4 = OUT1 (D0)
• socket 6	PIN 4 = OUT2 (D1)
• socket 7	PIN 4 = OUT3 (D2)
• socket 8	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	164 mm
Depth	45 mm
Mounting type	no mounting plate required
Certificates/ approvals	

General Product Approval	EMC	Declaration of Conformity
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[Miscellaneous](#)

Test Certificates	Shipping Approval
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[Special Test Certificate](#)



other



[Confirmation](#)

[Miscellaneous](#)

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=3RK2400-1CT30-0AA3>

Cax online generator

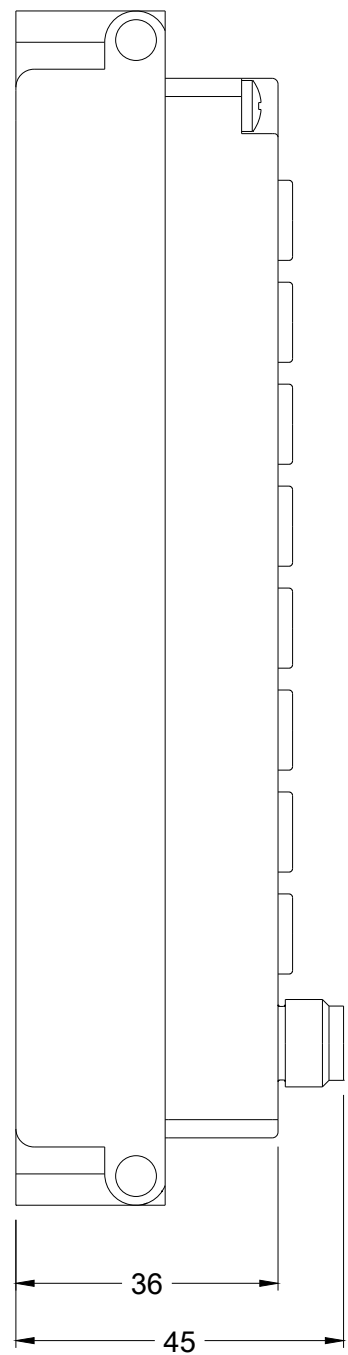
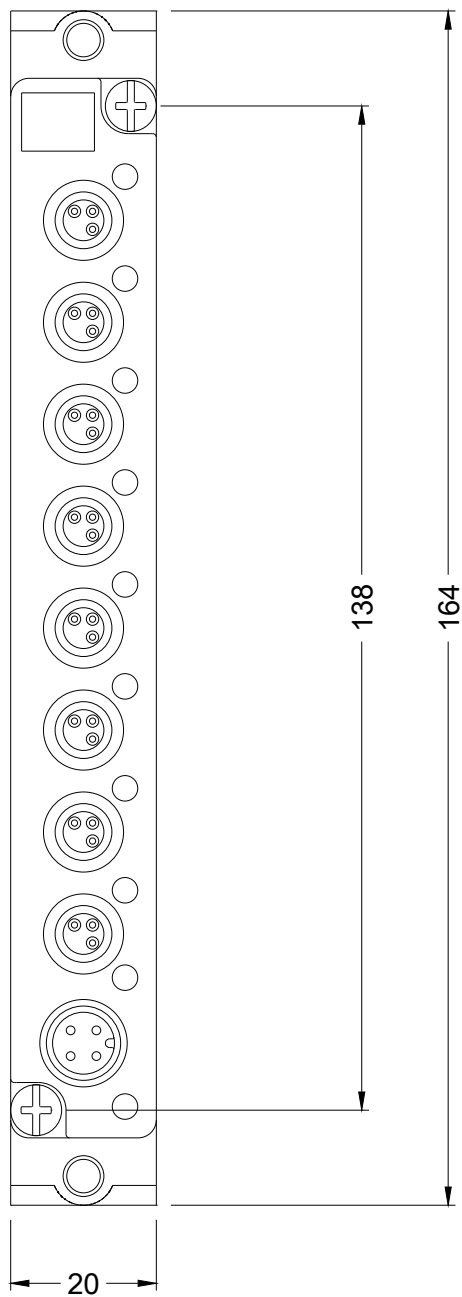
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-1CT30-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1CT30-0AA3>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-1CT30-0AA3&lang=en



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