SIEMENS

Data sheet 3RK2400-1BT30-0AA3



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 4 x M8 socket

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/0
Number I/O sockets	4
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 spezification	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 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 3	sensor supply L-
● PIN 4	data input
design of the pin assignment of the inputs	standard assignement
Outputs	
number of digital outputs	2

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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	standard assignement
Outputs socket assignment	3 = "-", 4 = output
property of the output short-circuit proof	Yes
Outputs	
● short-ciruit 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 = IN3 (D2)
● socket 2	PIN 4 = IN4 (D3)
● socket 3	PIN 4 = OUT1 (D0)
● socket 4	PIN 4 = OUT2 (D1)
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 Certific-ate		

other

Confirmation Miscellaneous

Further information

Siemens has decided to exit the Russian market (see here).

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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

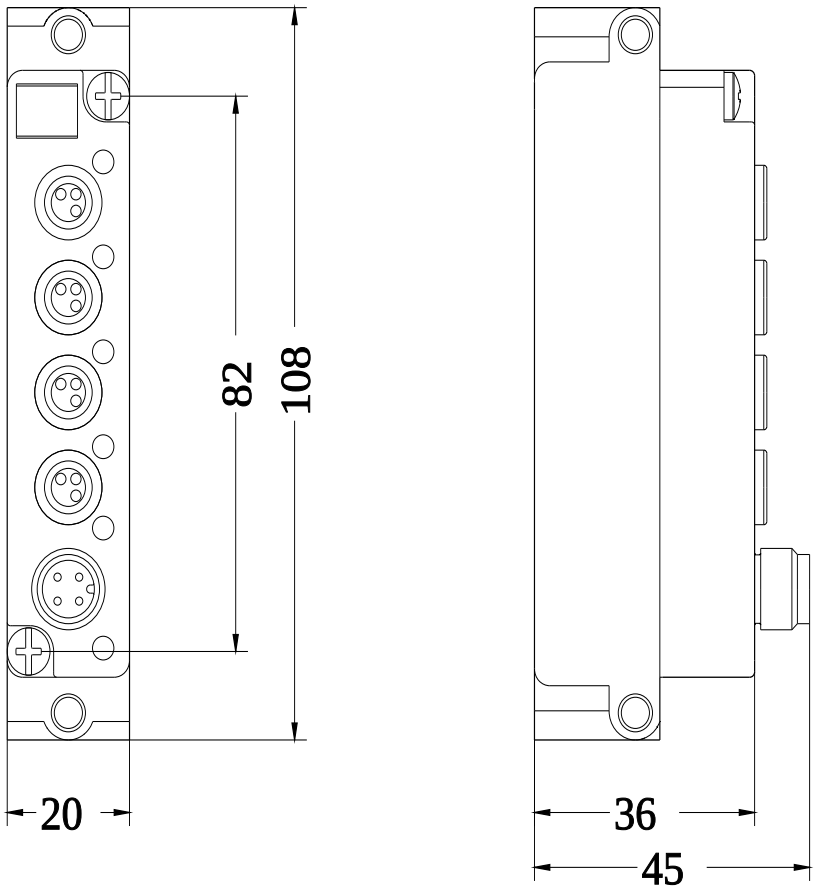
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2400-1BT30-0AA3

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-1BT30-0AA3

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1BT30-0AA3

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-1BT30-0AA3&lang=en



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