SIEMENS

Data sheet 3RK2400-1CT30-0AA3



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 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.
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 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	

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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 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 = 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
fastening method	no mounting plate required
shock resistance	15g / 11 ms
Certificates/ approvals	

General Product Approval					EMV
Confirmation	UKCA	CE EG-Konf.	UL	EAC	RCM

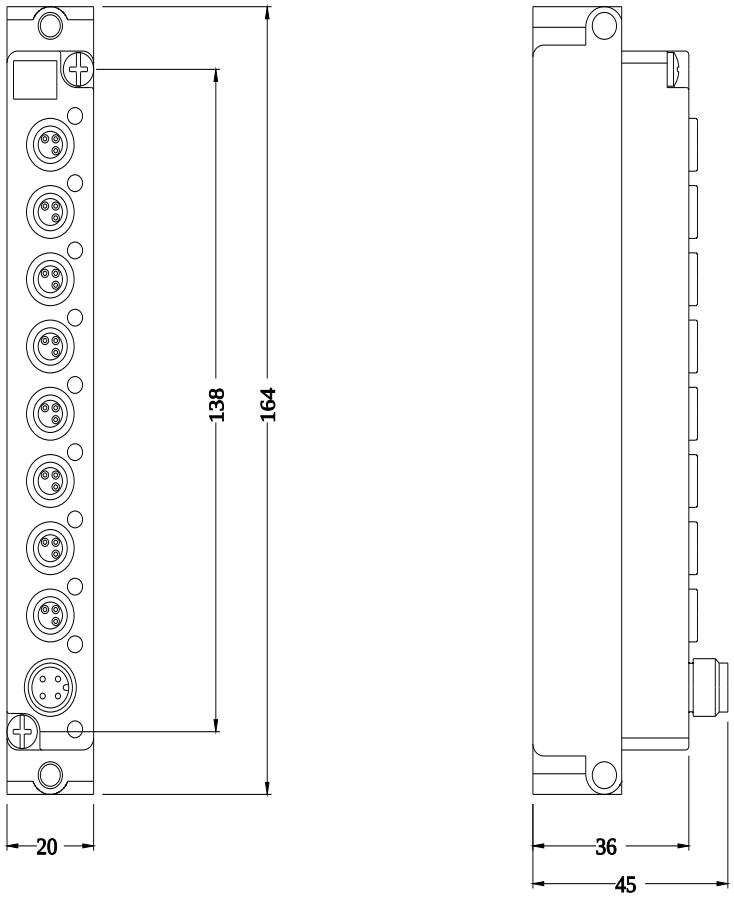
EMV	Test Certificates	Marine / Shipping			
KC	Special Test Certific-ate	BUREAU VERITAS	DNV	Lloyd's Register LRS	PRS

other	Industrial Communication

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Further information

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=3RK2400-1CT30-0AA3
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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