



Figure similar

AS-I COMPACT MODULE K20, IP67, A/B SLAVE (SPEC. 3.0), IP67 DIGITAL, 4DI/4DO, 4 X INPUT FOR SENSOR (MECHAN./2- OR 3-WIRE) PNP, SENSOR SUPPLY FROM U_ASI TOTAL MAX.200MA, 4 X OUTPUT 1A OUTPUT SUPPLY FROM DC 24V MAX. 2A FOR ALL OUTPUTS 8XM8-SOCKET

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	mA	270
operating voltage according to AS-Interface spezifikation	V	26.5 ... 31.6
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	V	16.5 ... 30

Property of the sensor supply Short-circuit and overload resistant		Yes
Ampacity of the sensor supply for all inputs		
<ul style="list-style-type: none"> • at ambient temperature 40 °C 	mA	200
<ul style="list-style-type: none"> • at ambient temperature 55 °C 	mA	150

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	V	10
Input current at digital input		
<ul style="list-style-type: none"> • for signal <1> minimum 	mA	6
<ul style="list-style-type: none"> • with signal <0> maximum 	mA	1.5
Inputs sensor supply using AS-Interface		short-circuit and overload resistant
Inputs socket assignment		
<ul style="list-style-type: none"> • PIN 1 • PIN 3 • PIN 4 		sensor supply L+ sensor supply L- 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
Output current at digital output for signal <1> Rated value	A	1
Outputs aggregate current		
<ul style="list-style-type: none"> • at Tu=40 °C max 	A	2
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		
<ul style="list-style-type: none"> • short-circuit protection • induction protection • watchdog 		built-in built-in built-in
Status display		
<ul style="list-style-type: none"> • display of I/Os • display of Uaux • display of AS-Interface/diagnostics 		yellow LED green LED green/red dual LED
Assignment of data bits		

- socket
- socket 2
- socket 3
- socket 4
- socket 5
- socket 6
- socket 7
- socket 8

- PIN 4 = IN1 (D0)
- PIN 4 = IN2 (D1)
- PIN 4 = IN3 (D2)
- PIN 4 = IN4 (D3)
- PIN 4 = OUT1 (D0)
- PIN 4 = OUT2 (D1)
- PIN 4 = OUT3 (D2)
- PIN 4 = OUT4 (D3)

Ambient conditions:

Ambient temperature		
• during operation	°C	-25 ... +70
• during storage	°C	-40 ... +85
Protection class IP		IP67

Mechanical data:

Width	mm	20
Height	mm	164
Depth	mm	45
Mounting type		no mounting plate required

Certificates/ approvals:

AS-Interface certificate		requested
Approvals		UL and CSA requested

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



Shipping Approval	other
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[Environmental Confirmations](#)

other

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Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

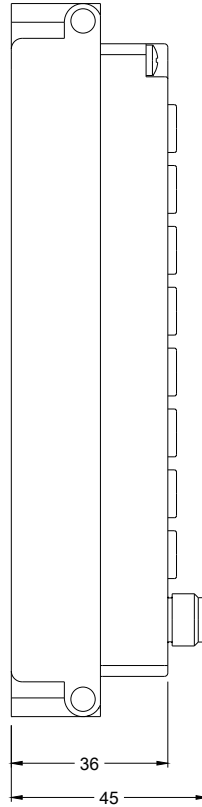
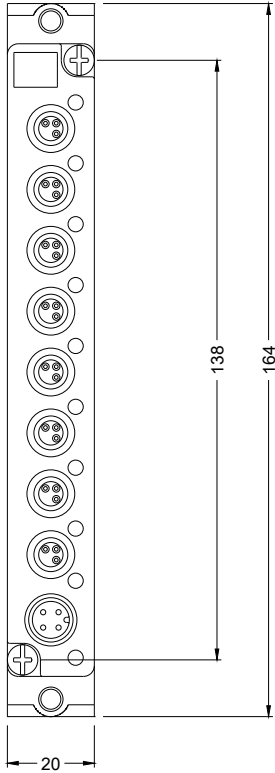
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK24001CT300AA3>

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

<http://support.automation.siemens.com/WW/view/en/3RK24001CT300AA3/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK24001CT300AA3&lang=en>



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