



AS-I COMPACT MODULE K20, IP67, A/B-SLAVE, DIGITAL, 2DI/2DO, 2 X INPUT FOR SENSOR(MECHAN./2- OR 3-WIRE) PNP, SENSOR SUPPLY FROM U_ASI "TOTAL MAX.150MA," 2 X OUTPUT MAX. 1A OUTPUT SUPPLY FROM DC 24V MAX. 1A FOR ALL OUTPUTS 2XM12-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/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	mA	270
operating voltage according to AS-Interface spezification	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.

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		

- at ambient temperature 40 °C
- at ambient temperature 55 °C

mA	150
mA	70

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	V	10
Input current at digital input		
• for signal <1> minimum	mA	6
• with signal <0> maximum	mA	1.5
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 assignment

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
Output current at digital output for signal <1> Rated value	A	1
Outputs aggregate current		
• max	A	1
Type of switching output		PNP transistor
Design of the pin assignment of the outputs		Y assignment
Outputs socket assignment		2 = output 2, 3 = "-", 4 = output 1
Property of the output Short-circuit proof		Yes
Outputs		
• short-circuit protection		built-in
• induction protection		built-in
• watchdog		built-in
Status display		
• display of I/Os		yellow LED
• display of Uaux		green LED
• display of AS-Interface/diagnostics		green/red dual LED
Assignment of data bits		
• socket		PIN 4 = IN3 (D2), PIN 2 = IN4 (D3)
• socket 2		PIN 4 = OUT1 (D0), PIN 2 = OUT2 (D1)

- socket 3 not available
- socket 4 not available

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	108
Depth	mm	45
Mounting type		no mounting plate required

Certificates/ approvals:

AS-Interface certificate		yes
Approvals		UL and CSA requested

General Product Approval	Test Certificates	Shipping Approval
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CSA



GOST



UL



[Special Test Certificate](#)



ABS

Shipping Approval	other
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BUREAU VERITAS



DNV



LRS



PRS



RMRS

[Confirmation](#)

other

- [Environmental Confirmations](#)
- [Declaration of Conformity](#)
- [other](#)

Further information

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

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

Industry Mall (Online ordering system)

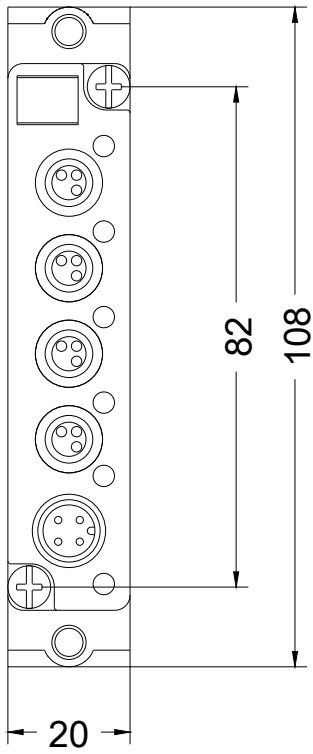
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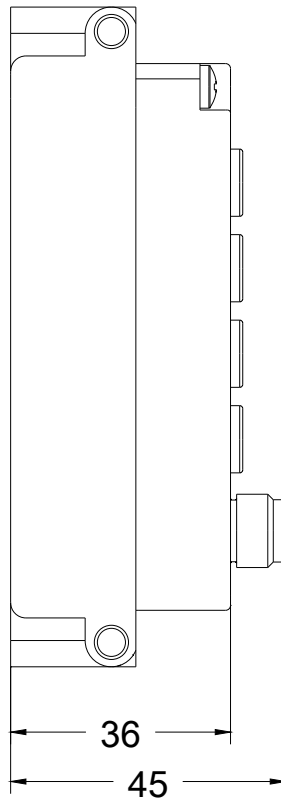
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK24001BQ300AA3>

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

<http://support.automation.siemens.com/WW/view/en/3RK24001BQ300AA3/all>



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