



AS-I COMPACT MODULE K20, 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;
8 X M8 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		standard slave
I/O configuration		7
ID/ID2 code		0/E
Number / I/O sockets		8
Design of the 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 specification	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 the sensor supply		using AS-Interface
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Input voltage	V	16.5 ... 30
Characteristic feature of the sensor supply / short-circuit and overload resistant		Yes
Current carrying capacity / of the sensor supply / for all inputs		
• at ambient temperature 40 °C	mA	200
• 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 / input voltages		DC
Inputs / switching level High / min	V	10
Input current / at the digital input		
• for signal <1> / minimum	mA	6
• at 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 3		sensor supply L-
• PIN 4		data input
Design of the pin assignment / of the inputs		standard assignement

Outputs:		
Number of digital outputs		4
Voltage type / 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 the digital output / for signal <1> / nominal value	A	1
Outputs / aggregate current		
• at Tu=40 °C / max	A	2
Design of the switching output		PNP transistor
Design of the pin assignment / of the outputs		standard assignement
Outputs / socket assignment		3 = "-", 2 = output
Characteristic feature of the output / short-circuit protected		Yes
Outputs		
• short-ciruit protection		built-in
• induction protection		built-in
• watchdog		built-in

Status display

- 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 operating
- during storage

°C -25 ... +70
°C -40 ... +85

Protection class IP

IP67

Mechanical design:

Width

mm 20

Height

mm 164

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



[Special Test Certificate](#)

Shipping Approval



other

[Confirmation](#)

[Declaration of Conformity](#)

[Environmental Confirmations](#)

Further information:

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

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

Industry Mall (Online ordering system)

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

CAX-Online-Generator

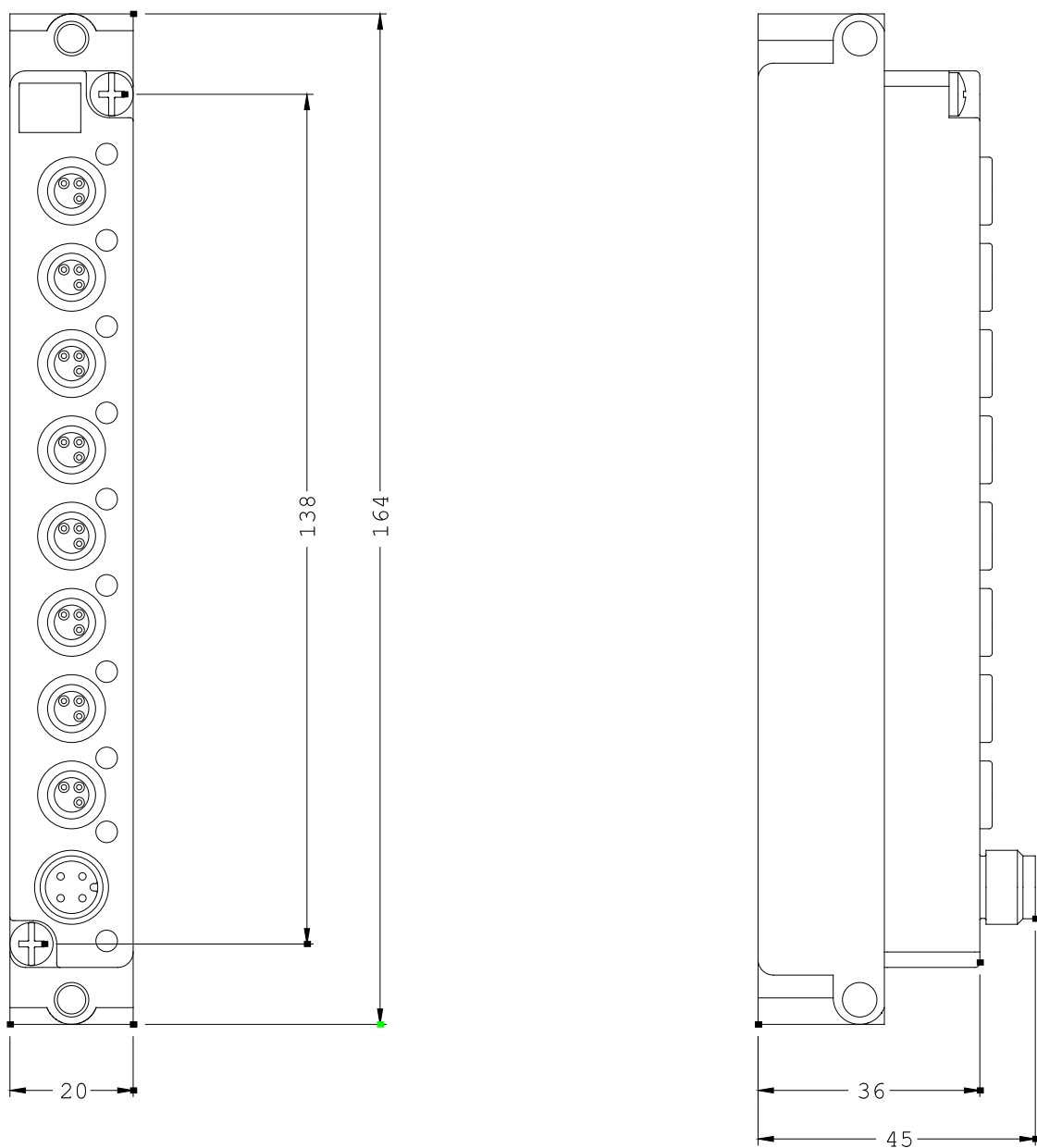
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK1400-1CT30-0AA3/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1400-1CT30-0AA3



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