



AS-INTERFACE COMPACT MOD. K45, IP67,
DIGITAL, 2 IN-/OUTPUTS, 2X1 INPUT,
200MA MAX., PNP, 2 X 1OUTP.,
ELECTR.,1.5A,DC 24V 3A MAX. FOR ALL OUTPUTS 4 X
M12-SOCKETS

General technical data:

Design of the product		digital I/O modules for operation in the field, IP67 - K45
Type		2 inputs / 2 outputs
Design of the slave type		standard slave
I/O configuration		3
ID/ID2 code		0/F
Number / I/O sockets		4
Design of the 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 specification	V	26.5 ... 31.6
Ground terminal		Using PIN5 on the M12 sockets. Outgoing via flat tab sleeve (2.8 x 0.8 mm form A)
Addressing		front addressing socket
AS interface / Connection / Polarity reversal protection		built-in
Delivery note		the modules are delivered without mounting plate
Note 1		All K45 compact modules are delivered with stainless steel screws/sockets

Note 2		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.
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Sensor supply:		
Type of voltage supply / for the sensor supply		using AS-Interface
Input voltage	V	20 ... 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

Inputs:		
Number of digital inputs		2
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 • at signal <0> / maximum	mA mA	6 1.5
Inputs • sensor supply using AS-Interface		short-circuit and overload resistant
Inputs / socket assignment • PIN 1 • PIN 2 • PIN 3 • PIN 4 • PIN 5		sensor supply L+ data input sensor supply L- data input ground terminal
Design of the pin assignment / of the inputs		standard assignment

Outputs:		
Number of digital outputs		2
Voltage type / of output voltages		DC
Outputs / external power supply 24 V DC		using black AS-Interface flat cable
Output current / at the digital output / for signal <1> / nominal value	A	2
Outputs / aggregate current • max	A	3
Design of the switching output		PNP transistor
Design of the pin assignment / of the outputs		standard assignment

Outputs / socket assignment		3 = "-", 4 = output, 5 = ground terminal
Characteristic feature of the output / short-circuit protected		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 4/2 = IN1 (D0)
• socket 2		PIN 4/2 = IN2 (D1)
• socket 3		PIN 4 = OUT3 (D2)
• socket 4		PIN 4 = OUT4 (D3)

Ambient conditions:

Ambient temperature

• during operating	°C	-25 ... +85
• during storage	°C	-40 ... +85

Protection class IP

IP67

Mechanical design:

Width	mm	45
Height	mm	80
Depth	mm	30
Mounting type		standard rail mounting/wall mounting using mounting plate for K45 compact module

Certificates/approvals:

AS-Interface certificate		yes
Approvals		UL, CSA, shipbuilding

General Product Approval



Test Certificates

[Special Test Certificate](#)

Shipping Approval



other

[Confirmation](#)

[Declaration of Conformity](#)

[other](#)

[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

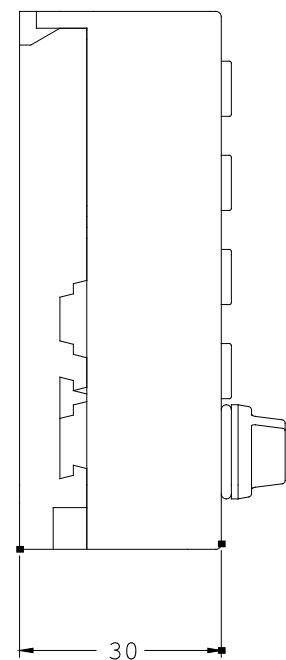
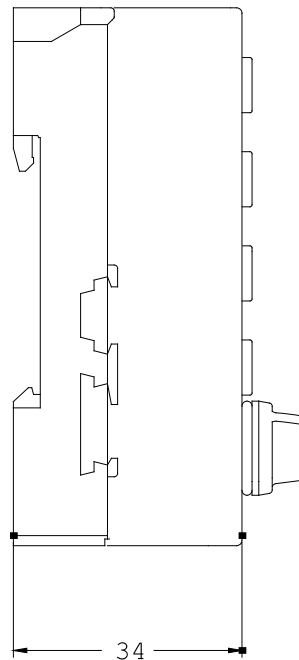
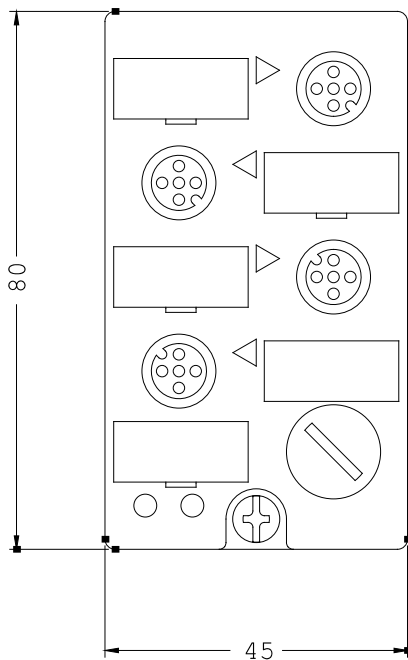
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK1400-1BQ20-0AA3/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1400-1BQ20-0AA3



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