



AS-INTERFACE COMPACT MOD. K45, IP67,
DIGITAL, 4 OUTPUTS, 4 X OUTP.,
ELECTR., 1.0A,
DC 24V 3AMAX. FOR ALL OUTPUTS 4 X M12 SOCKET

General technical data:

Design of the product		digital I/O modules for operation in the field, IP67 - K45
Type		4 outputs
Design of the slave type		standard slave
I/O configuration		8
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	45
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:

Ampacity / of the sensor supply / for all inputs		
<ul style="list-style-type: none"> at ambient temperature 40 °C 	mA	200

Inputs:

Number of digital inputs		0
Type of connection		2- and 3-wire technology
Input circuit		PNP transistor
Inputs		
<ul style="list-style-type: none"> sensor supply using AS-Interface 		short-circuit and overload resistant

Outputs:

Number of digital outputs		4
Type of voltage / of output voltages		DC
Outputs / external power supply 24 V DC		using black AS-Interface flat cable
Output current / at digital output / for signal <1> / Rated value	A	1
Outputs / aggregate current		
<ul style="list-style-type: none"> max 	A	3
Type of switching output		PNP transistor
Design of the pin assignment / of the outputs		standard assignement
Outputs / socket assignment		3 = "-", 4 = output, 5 = ground terminal
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
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Assignment of data bits

<ul style="list-style-type: none"> socket socket 2 socket 3 socket 4 		PIN 4 = OUT1 (D0) PIN 4 = OUT2 (D1) PIN 4 = OUT3 (D2) PIN 4 = OUT4 (D3)
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Ambient conditions:

Ambient temperature

• during operation	°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



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

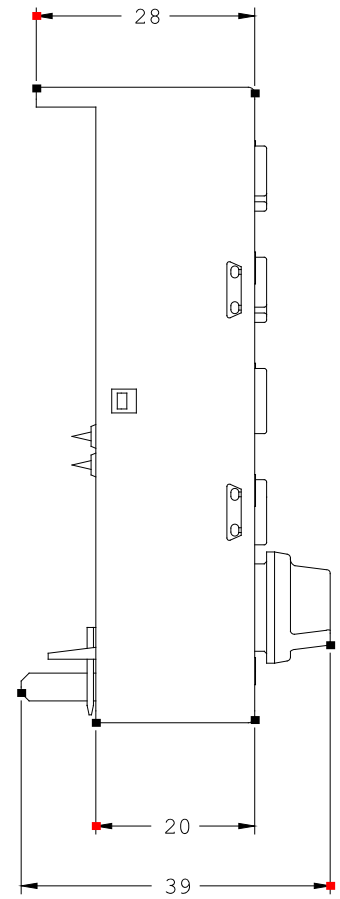
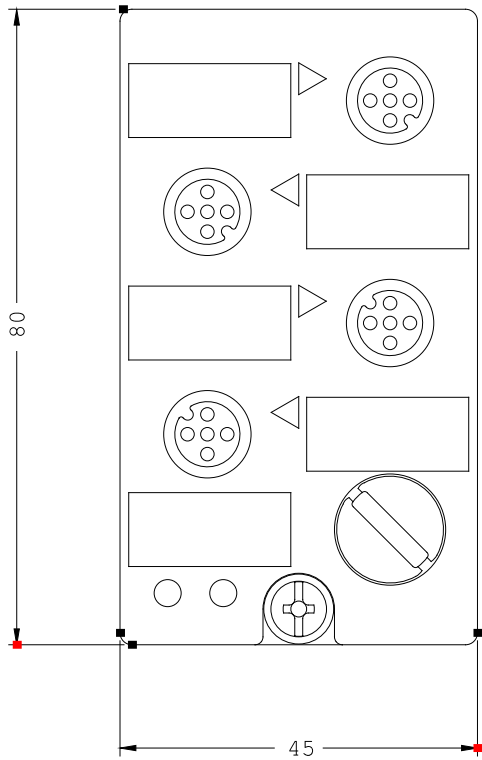
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK1100-1CQ20-0AA3/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1100-1CQ20-0AA3



last change:

Dec 1, 2014