



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
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 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.

Sensor supply:

Type of voltage supply for power supply		using AS-Interface
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Input voltage	V	20 ... 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	mA	200

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 - with 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
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	2
Outputs aggregate current max	A	3
Type of switching output		PNP transistor
Design of the pin assignment of the outputs		standard assignment
Outputs socket assignment		3 = "-", 4 = output, 5 = ground terminal
Property of the output Short-circuit proof		Yes
Outputs - short-circuit protection - induction protection - watchdog		built-in built-in 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		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 operation	°C	-25 ... +85
• during storage	°C	-40 ... +85
Protection class IP		IP67

Mechanical data:

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	Shipping Approval
 CSA  GOST  UL  EAC	Special Test Certificate	 ABS

Shipping Approval	other
 BUREAU VERITAS  Lloyd's Register LRS  PRS  RINA  RMRS	Confirmation

other
Declaration of Conformity Environmental Confirmations other

Further information

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

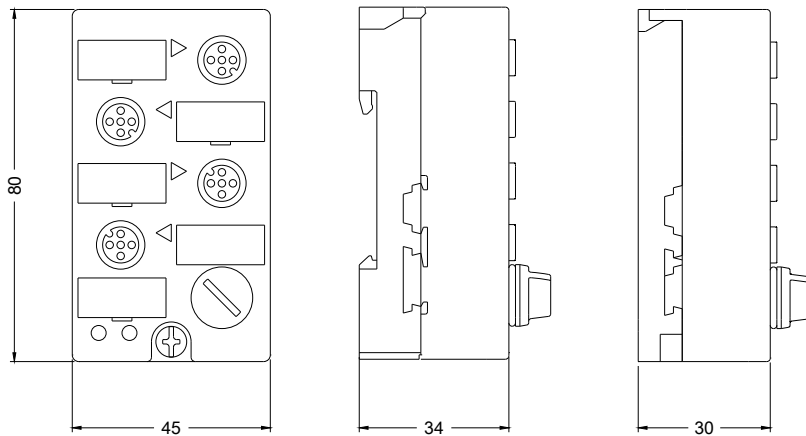
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK14001BQ200AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK14001BQ200AA3>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK14001BQ200AA3&lang=en



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