



AS-INTERFACE COMPACT MODULE K45 A/B-SLAVE,DIGITAL,
3A, IP67, 3 X 1 OUTPUT, 1A,
DC 24V 3 X M12-SOCKET STANDARD ASSIGNMENT
MOUNTING PLATE 3RK1901-2EA00 OR 3RK1901-2DA00
TO BE ORDERED SEPARATELY

General technical data:

Design of the product		digital I/O modules for operation in the field, IP67 - K45
Type		3 outputs
Design of the slave type		A/B slave
I/O configuration		8
ID/ID2 code		A/0
Number / I/O sockets		3
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:

Current carrying capacity / of the sensor supply / for all inputs		
• 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		
• sensor supply using AS-Interface		short-circuit and overload resistant

Outputs:

Number of digital outputs		3
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	1
Outputs / aggregate current		
• max	A	3
Design of the switching output		PNP transistor
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 = OUT1 (D0)
• socket 2		PIN 4 = OUT2 (D1)
• socket 3		PIN 4 = OUT3 (D2)
• socket 4		not available

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



Shipping Approval



other

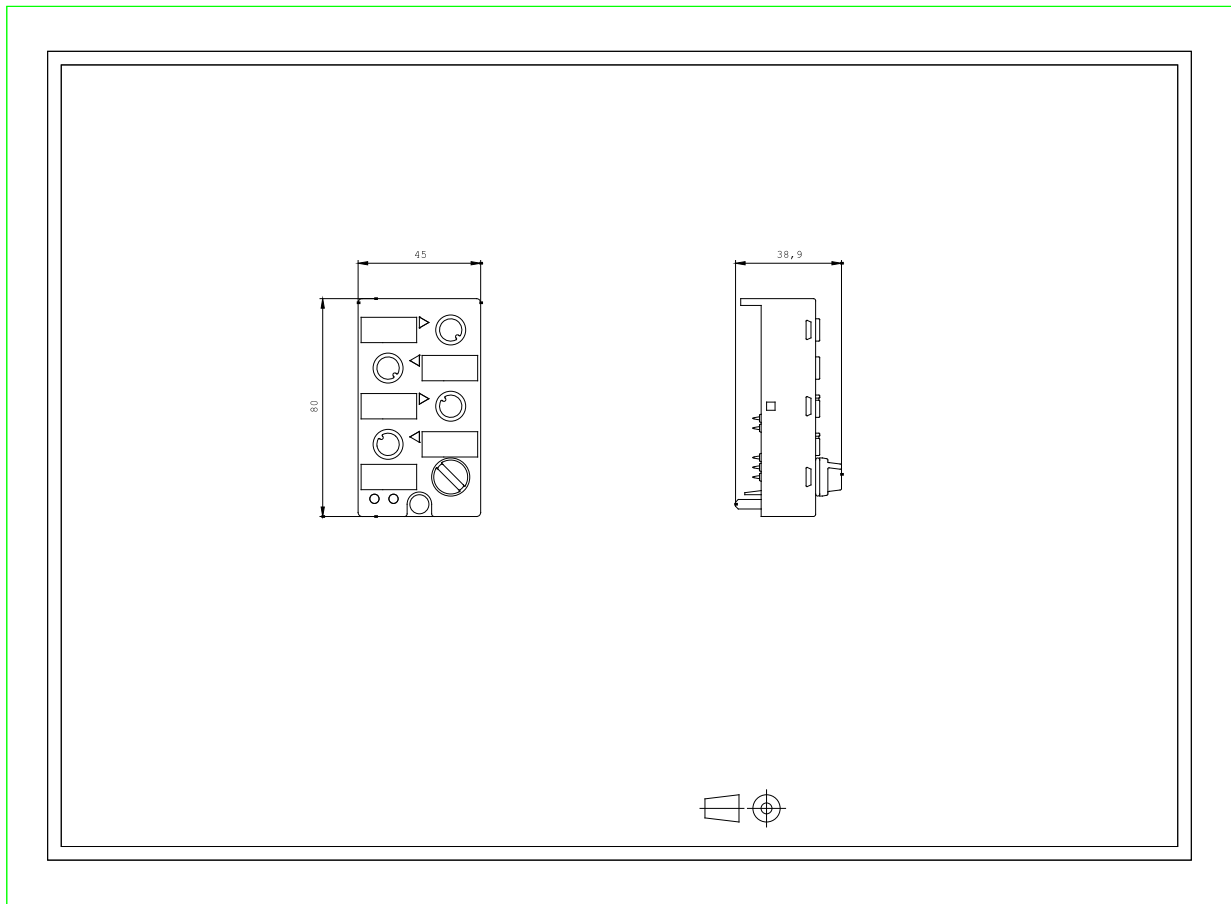
[Confirmation](#)

[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/3RK2100-1EQ20-0AA3/all
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)	http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK2100-1EQ20-0AA3



last change:

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