



AS-INTERFACE COMPACT MODUL, K45 DIGITAL, 2X 1E/1A, IP67, 2 X 1 INPUT/OUTPUT 2 X M12-SOCKET TOTAL POWER FOR INPUTS A. OUTPUTS MAX. 200 MA SUPPLY ONLY YELLOW CABLE 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, IP65 - K45
Type		2 x (1 input / 1 output)
Design of the slave type		standard slave
I/O configuration		3
ID/ID2 code		F/F
Number I/O sockets		2
Type of electrical connection of the inputs and outputs		M12 screw-type terminals
AS interface total current input max	mA	270
Total current for all inputs and outputs	mA	200
operating voltage according to AS-Interface spezifikation	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		The maximum current carrying capacity per module for all inputs and all outputs is 200 mA.

Sensor supply:

Type of voltage supply for power supply		using AS-Interface
Input voltage	V	20 ... 30

Property of the sensor supply Short-circuit and overload resistant		Yes
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		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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 		sensor supply L+ output sensor supply/outputs L- data input ground terminal
Design of the pin assignment of the inputs		Y assignment

Outputs:

Number of digital outputs		2
Type of voltage of output voltages		DC
Outputs external power supply 24 V DC		not required
Output current at digital output for signal <1> Rated value	mA	200
Outputs aggregate current <ul style="list-style-type: none"> max 	A	0.2
Type of switching output		PNP transistor
Design of the pin assignment of the outputs		Y assignment
Outputs socket assignment		3 = "-", 2 = output, 5 = ground terminal
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 not required green/red dual LED
Assignment of data bits <ul style="list-style-type: none"> socket 		PIN 4 = IN1 (D0), PIN 2 = OUT3 (D2)

- socket 2
- socket 3
- socket 4

not available
 not available
 PIN 4 = IN2 (D1), PIN2 = 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		Special Test Certificate	 ABS

Shipping Approval					other
 BUREAU VERITAS	 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

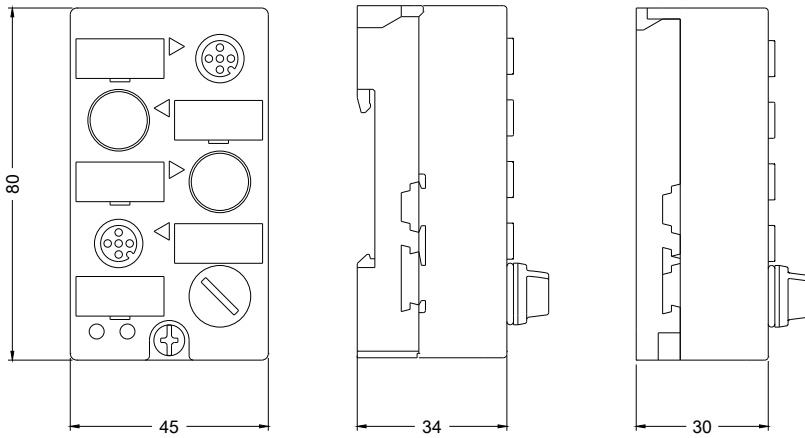
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK14000GQ200AA3>

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

<http://support.automation.siemens.com/WW/view/en/3RK14000GQ200AA3/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK14000GQ200AA3&lang=en>



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