

AS-i compact module K45 digital A/B slave, 2 DI/2 DQ, IP67 2 x input, maximum 200 mA 2 x output, 2 A 24 V DC maximal 3 A for all outputs 4 x M12 socket Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 is to be ordered separately

General technical data

design of the product	digital I/O modules for operation in the field, IP67 - K45
Type	2 outputs / 2 inputs
design of the slave type	A/B slave
I/O configuration	B
ID/ID2 code	A/0
Number I/O sockets	4
type of electrical connection of the inputs and outputs	M12 screw-type terminals
AS interface total current input max	270 mA
operating voltage according to AS-Interface specification	26.5 ... 31.6 V
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	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
input voltage	16.5 ... 30 V
property of the sensor supply short-circuit and overload resistant	Yes
ampacity of the sensor supply for all inputs	
• at ambient temperature 40 °C	200 mA

Inputs

number of digital inputs	2
type of connection technology	2- and 3-wire technology
Input circuit	PNP transistor
type of voltage of the input voltages	DC
Inputs switching level High min	10 V
input current at digital input	
• for signal <1> minimum	6 mA
• with signal <0> maximum	1.5 mA
Inputs sensor supply using AS-Interface	short-circuit and overload resistant
Inputs socket assignment	
• PIN 1	sensor supply L+
• PIN 2	data input
• PIN 3	sensor supply L-
• PIN 4	data input
• PIN 5	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	
ampacity of the semiconductor output at DC-13 at 24 V		2 A	
Outputs aggregate current			
• max		3 A	
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		built-in	
• induction protection		built-in	
• watchdog		built-in	
Display			
Status display			
• display of I/Os		yellow LED	
• display of Uaux		green LED	
• display of AS-Interface/diagnostics		green/red dual LED	
Assignment of the data bits			
Assignment of data bits			
• socket		PIN 4/2 = IN3 (D2)	
• socket 2		PIN 4/2 = IN4 (D3)	
• socket 3		PIN 4 = OUT1 (D0)	
• socket 4		PIN 4 = OUT2 (D1)	
Ambient conditions			
ambient temperature			
• during operation		-25 ... +85 °C	
• during storage		-40 ... +85 °C	
protection class IP		IP67	
Mechanical data			
width		45 mm	
height		80 mm	
depth		30 mm	
fastening method		standard rail mounting/wall mounting using mounting plate for K45 compact module	
shock resistance		15g / 11 ms	
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity
 CSA Confirmation  UL   RCM  EG-Konf.			
Marine / Shipping			
 ABS  BUREAU VERITAS  LRS  PRS  RMRS  DNV GL			
other			

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2400-1BQ20-0AA3>

Cax online generator

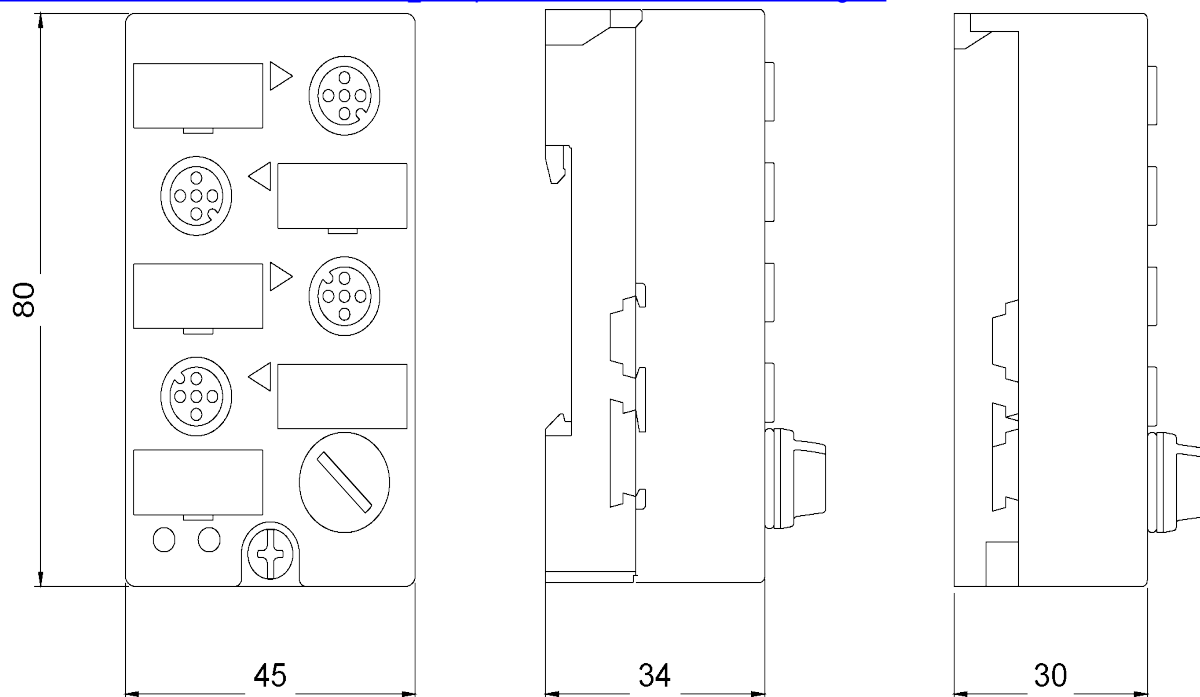
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-1BQ20-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1BQ20-0AA3>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-1BQ20-0AA3&lang=en



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