

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	270 mA
operating voltage according to AS-Interface spezifikation	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	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

Type of voltage supply for power supply	using AS-Interface
Input voltage	20 ... 30 V
Property of the sensor supply Short-circuit and overload resistant	Yes
Ampacity of the sensor supply for all inputs	200 mA
<ul style="list-style-type: none"> at ambient temperature 40 °C 	

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	10 V	
Input current at digital input	6 mA 1.5 mA	
<ul style="list-style-type: none"> for signal <1> minimum with signal <0> maximum 		
Inputs sensor supply using AS-Interface	short-circuit and overload resistant	
Inputs socket assignment	sensor supply L+ data input sensor supply L- data input ground terminal	
<ul style="list-style-type: none"> PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 		
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	1.5 A
Outputs aggregate current	3 A
<ul style="list-style-type: none"> max 	
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	built-in built-in
<ul style="list-style-type: none"> short-circuit protection induction protection 	

<ul style="list-style-type: none"> • watchdog 	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
Assignment of data bits <ul style="list-style-type: none"> • socket • socket 2 • socket 3 • socket 4 	PIN 4/2 = IN1 (D0) PIN 4/2 = IN2 (D1) PIN 4 = OUT3 (D2) PIN 4 = OUT4 (D3)

Ambient conditions




Ambient temperature <ul style="list-style-type: none"> • during operation • during storage 	-25 ... +85 °C -40 ... +85 °C
Protection class IP	IP67

Mechanical data

Width	45 mm
Height	80 mm
Depth	30 mm
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			Declaration of Conformity	Test Certificates	Shipping Approval
 CSA	 UL		 EG-Konf.	Type Test Certificates/Test Report	 ABS

Shipping Approval					other
 BUREAU VERITAS	 LRS	 PRS	 RINA	 RMRS	 ASi

other		
Confirmation	Environmental Confirmations	Miscellaneous

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1400-1BQ20-0AA3>

Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1400-1BQ20-0AA3>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3RK1400-1BQ20-0AA3>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1400-1BQ20-0AA3&lang=en

