



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
Design of the 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 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		The maximum current carrying capacity per module for all inputs and all outputs is 200 mA.
Sensor supply:		
Type of voltage supply / for the sensor supply		using AS-Interface
Input voltage	V	20 ... 30
Characteristic feature of the sensor supply / short-circuit and overload resistant		Yes
Current carrying capacity / 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 / input voltages		DC
Inputs / switching level High / min	V	10
Input current / at the digital input • for signal <1> / minimum • at 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+ output sensor supply/outputs L- data input ground terminal
Design of the pin assignment / of the inputs		Y assignement
Outputs:		
Number of digital outputs		2
Voltage type / of output voltages		DC
Outputs / external power supply 24 V DC		not required
Output current / at the digital output / for signal <1> / nominal value	mA	200
Outputs / aggregate current • max	A	0.2
Design of the switching output		PNP transistor
Design of the pin assignment / of the outputs		Y assignement
Outputs / socket assignment		3 = "-", 2 = output, 5 = ground terminal
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
not required
green/red dual LED

Assignment of data bits

- socket
- socket 2
- socket 3
- socket 4

PIN 4 = IN1 (D0), PIN 2 = OUT3 (D2)
not available
not available
PIN 4 = IN2 (D1), PIN2 = OUT4 (D3)

Ambient conditions:

Ambient temperature

- during operating
- during storage

°C -25 ... +85
°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

Test Certificates



[Special Test Certificate](#)

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

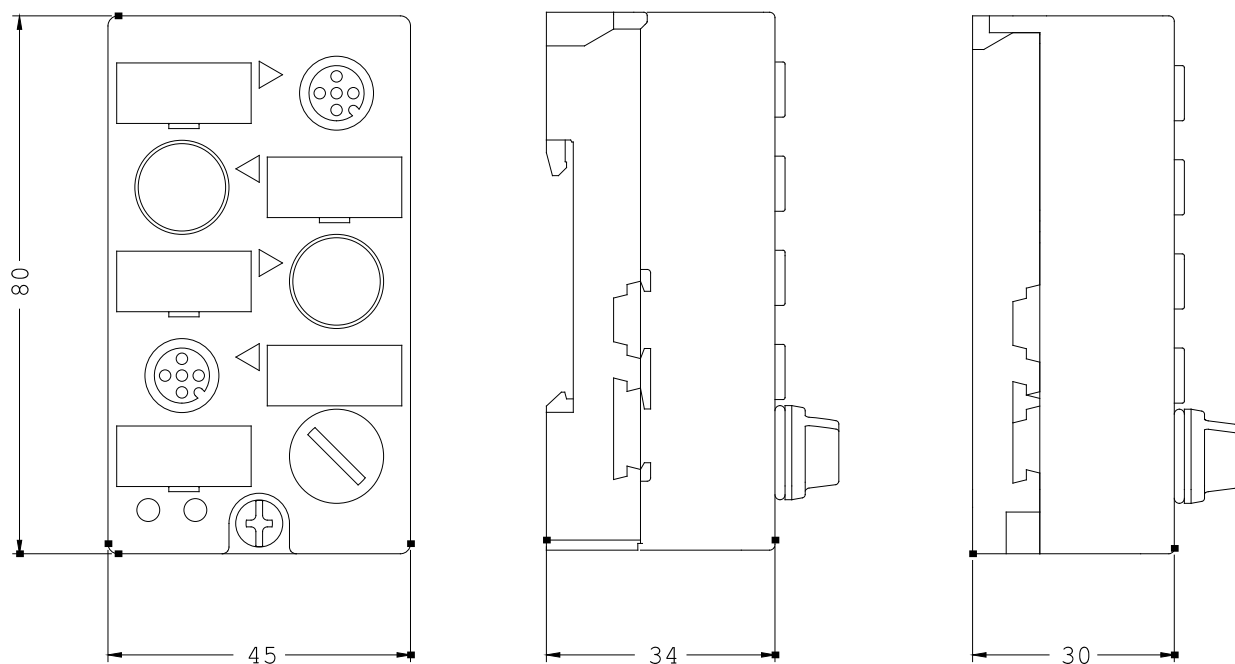
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK1400-0GQ20-0AA3/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1400-0GQ20-0AA3



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