

ASsafe compact module K45F digital safety, 2 F-DI/2 DQ, IP67 2 x input for mechanical sensors 2 x standard output 24 V DC Output supply from 24 V DC 4 x M12 socket Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 must be ordered separately

General technical data		
design of the product		Safe compact module K45F, 2F-DI/2DO, Uaux
Type		2 inputs, safe, 2 outputs, standard with Uaux
I/O configuration		7
ID/ID2 code		B/0
protocol is supported AS-Interface protocol		Yes
Number I/O sockets		4
type of electrical connection of the inputs and outputs		M12 screw terminals
operating voltage according to AS-Interface specification	V	26.5 ... 31.5
AS interface total current input max	mA	70
Addressing		front addressing socket
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		A
reference code according to EN 61346-2		A
Inputs		
number of digital inputs safety-related		2
Inputs		
<ul style="list-style-type: none"> <li>• sensors</li> <li>• switching level High</li> <li>• switching level Low</li> </ul>		mechanical switching contact contact closed contact open
input current at digital input for signal <1> minimum	mA	5
design of the pin assignment of the inputs		special assignement
Outputs		
number of digital outputs		2
type of voltage of output voltages		DC
Outputs external power supply 24 V DC		via AUX POWER
output current at digital output for signal <1> rated value	A	2
type of switching output		solid state
design of the pin assignment of the outputs		standard assignement
property of the output short-circuit proof		Yes
Outputs		
<ul style="list-style-type: none"> <li>• short-circuit protection</li> <li>• induction protection</li> <li>• watchdog</li> </ul>		built-in built-in built-in
Status display		
<ul style="list-style-type: none"> <li>• display of I/Os</li> <li>• display of Uaux</li> <li>• display of AS-Interface/diagnostics</li> </ul>		yellow LED green LED green/red LED
Ambient conditions		
ambient temperature		

• during operation	°C	-25 ... +70
• during storage	°C	-40 ... +85
<b>protection class IP</b>		IP67
<b>Mechanical data</b>		
<b>width</b>	mm	45
<b>height</b>	mm	80
<b>depth</b>	mm	34
<b>fastening method</b>		standard rail mounting/wall mounting using mounting plate for K45 compact module

<b>Certificates/ approvals</b>	General Product Approval	EMV	Maritime application
--------------------------------	--------------------------	-----	----------------------



Maritime application	other	Environment
----------------------	-------	-------------



[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

**Further information**

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**Information for data generation and storage**

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

**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=3RK1405-1BQ20-0AA3>

**Cax online generator**

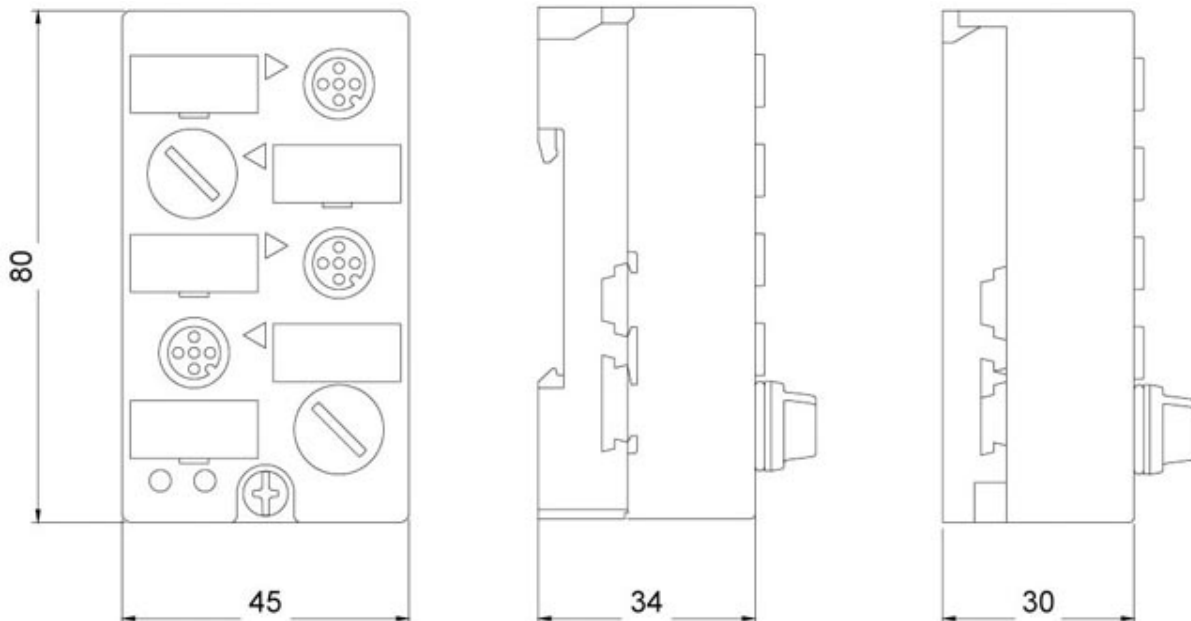
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1405-1BQ20-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1405-1BQ20-0AA3>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1405-1BQ20-0AA3&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1405-1BQ20-0AA3&lang=en)



last modified:

4/1/2025