

AS-INTERFACE SLIMLINE MOD. S45, DIGITAL, 4I/4O, 2/3-WIRE, IP20 4 X 1 INPUT, 200MA, PNP 4 X 1 OUTPUT, 2A, DC 24V CAGE-CLAMP, MODULE WIDTH 45 MM

General technical data:

<b>Design of the product</b>		SlimLine S22.5 - I/O modules for operation in the control cabinet
<b>Design of the slave type</b>		standard slave
<b>Type</b>		4 inputs / 4 outputs
<b>I/O configuration</b>		7
<b>ID/ID2 code</b>		0/F
<b>Protocol is supported AS-interface protocol</b>		Yes
<b>AS interface total current input max</b>	mA	270
operating voltage according to AS-Interface specification	V	26.5 ... 31.6
<b>Addressing</b>		front addressing socket
<b>Type of electrical connection of the inputs and outputs</b>		spring-loaded terminals
<b>Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750</b>		A
<b>Equipment marking acc. to DIN EN 61346-2</b>		K
<b>note</b>		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.
<b>Note 1</b>		detachment tool for spring-loaded terminal connection: See Accessories

Sensor supply:

<b>Type of voltage supply for power supply</b>		using AS-Interface
<b>Input voltage</b>	V	20 ... 30

<b>Property of the sensor supply Short-circuit and overload resistant</b>		Yes
Ampacity of the sensor supply for all inputs		
<ul style="list-style-type: none"> <li>at ambient temperature 40 °C</li> </ul>	mA	200

#### Inputs:

<b>Number of digital inputs</b>		4
<b>Type of connection</b>		2- and 3-wire technology
<b>Input circuit</b>		PNP transistor
<b>Type of voltage of the input voltages</b>		DC
<b>Inputs switching level High min</b>	V	10
Input current at digital input		
<ul style="list-style-type: none"> <li>for signal &lt;1&gt; minimum</li> </ul>	mA	5
<ul style="list-style-type: none"> <li>with signal &lt;0&gt; maximum</li> </ul>	mA	1.5
<b>Inputs sensor supply using AS-Interface</b>		short-circuit and overload resistant

#### Outputs:

<b>Number of digital outputs</b>		4
<b>Type of voltage of output voltages</b>		DC
Output voltage for DC at 24 V	V	22 ... 24
<b>Outputs external power supply 24 V DC</b>		using terminals: Terminal 13 = L+, Terminal 19 = M
<b>Outputs</b>		
<ul style="list-style-type: none"> <li>aggregate current max</li> </ul>	A	4
<b>Ampacity</b>		
<ul style="list-style-type: none"> <li>of the semiconductor output at DC-13 at 24 V</li> </ul>	A	2
<b>Type of switching output</b>		solid state
<b>Property of the output Short-circuit proof</b>		Yes
<b>output Polarity reversal protection</b>		built-in
<b>Outputs</b>		
<ul style="list-style-type: none"> <li>short-circuit protection</li> </ul>		built-in
<ul style="list-style-type: none"> <li>induction protection</li> </ul>		built-in
<ul style="list-style-type: none"> <li>watchdog</li> </ul>		built-in
<b>Status display</b>		
<ul style="list-style-type: none"> <li>display of I/Os</li> </ul>		yellow LED
<ul style="list-style-type: none"> <li>AS-Interface</li> </ul>		green LED
<ul style="list-style-type: none"> <li>FAULT</li> </ul>		red LED
<b>Assignment of data bits</b>		
<ul style="list-style-type: none"> <li>D0</li> </ul>		IN1/OUT1
<ul style="list-style-type: none"> <li>D1</li> </ul>		IN2 /OUT2
<ul style="list-style-type: none"> <li>D2</li> </ul>		IN3/OUT3
<ul style="list-style-type: none"> <li>D3</li> </ul>		IN4/OUT4

#### Ambient conditions:

<b>Ambient temperature</b>		
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• during operation	°C	-25 ... +70
• during storage	°C	-40 ... +85
<b>Protection class IP</b>		IP20

**Mechanical data:**

<b>Width</b>	mm	45
<b>Height</b>	mm	108
<b>Depth</b>	mm	86
<b>Mounting type</b>		35 mm standard rail mounting or wall mounting using push-in lugs
<b>Conductor cross-section</b>		
• solid		2 x (0.25 - 1.5) mm <sup>2</sup>
• finely stranded		
— with end sleeve		2 x (0.25 - 1) mm <sup>2</sup>
— without end sleeve		2 x (0.25 - 1.5) mm <sup>2</sup>
• AWG solid or stranded		AWG 2 x (24 - 16) mm <sup>2</sup>

**Certificates/ approvals:**

<b>AS-Interface certificate</b>		yes (or requested for in case of new units)
<b>Approvals</b>		UL, CSA, shipbuilding (or requested for in case of new units)

<b>General Product Approval</b>	<b>Test Certificates</b>	<b>Shipping Approval</b>
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[Special Test Certificate](#)



<b>Shipping Approval</b>	<b>other</b>
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[Confirmation](#)

<b>other</b>
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[Environmental Confirmations](#)

[Declaration of Conformity](#)

[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**

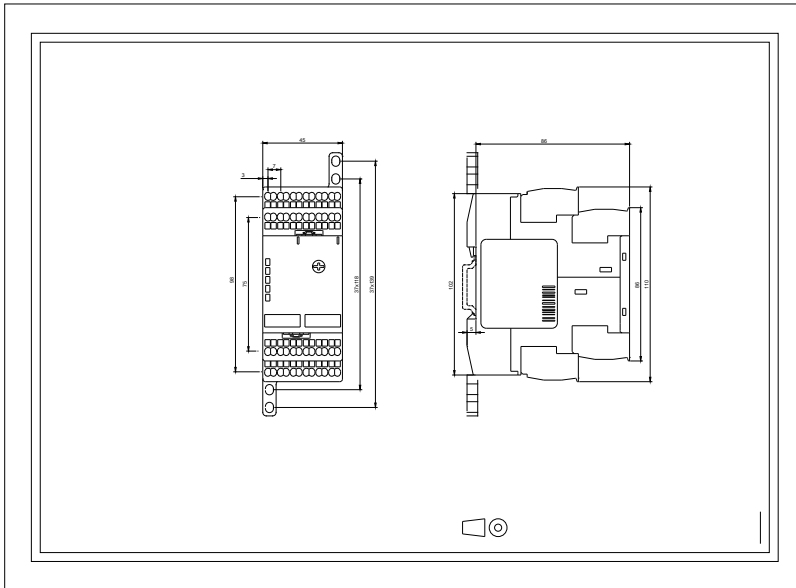
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK14001CG010AA2>

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

<http://support.automation.siemens.com/WW/view/en/3RK14001CG010AA2/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK14001CG010AA2&lang=en>



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