



AS-INTERFACE COMPACT MOD. K60, DIGITAL, 4I/4O, IP67, 4 X 1 INPUT, 200MA MAX., PNP 4 X 1 OUTPUT, 1A, DC 24V 4 X M12 STANDARD SOCKET 4 X M12 SOCKET M. Y-II ASSIGNM. FOR INPUT/OUTPUT CONNECTIONS MOUNTING PLATE 3RK19010CA00 TO BE ORDERED SEPARATELY

General technical data:

<b>Design of the product</b>		digital I/O modules for operation in the field, IP67 - K60
<b>Type</b>		4 inputs / 4 outputs
<b>Design of the slave type</b>		standard slave
<b>I/O configuration</b>		7
<b>ID/ID2 code</b>		F/F
<b>Number I/O sockets</b>		8
<b>Type of electrical connection of the inputs and outputs</b>		M12 screw-type terminals
<b>AS interface total current input max</b>	mA	270
operating voltage according to AS-Interface specification	V	26.5 ... 31.6
<b>Ground terminal</b>		PIN5 of each M12 socket is connected to the grounding wrist strap in the mounting plate using a pin
<b>Addressing</b>		front addressing socket
<b>Delivery note</b>		the modules are delivered without mounting plate
<b>Note 1</b>		All K60 compact modules are delivered with stainless steel screws/sockets
<b>Note 2</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.

Sensor supply:

<b>Type of voltage supply for power supply</b>		using AS-Interface
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<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> <li>• with signal &lt;0&gt; maximum</li> </ul>	mA mA	6 1.5
<b>Inputs</b> <ul style="list-style-type: none"> <li>• sensor supply using AS-Interface</li> <li>• socket assignment <ul style="list-style-type: none"> <li>— PIN 1</li> <li>— PIN 2</li> <li>— PIN 3</li> <li>— PIN 4</li> <li>— PIN 5</li> </ul> </li> </ul>		short-circuit and overload resistant  sensor supply L+ data input II sensor supply L- data input I ground terminal
<b>Design of the pin assignment of the inputs</b>		Y-II assignement

### Outputs:

<b>Number of digital outputs</b>		4
<b>Type of voltage of output voltages</b>		DC
<b>Outputs external power supply 24 V DC</b>		using black AS-Interface flat cable
<b>Output current at digital output for signal &lt;1&gt; Rated value</b>	A	1
<b>Outputs aggregate current max</b>	A	4
<b>Type of switching output</b>		PNP transistor
<b>Design of the pin assignment of the outputs</b>		Y-II assignement
<b>Outputs socket assignment</b>		3 = "-", 2/4 = output, 5 = ground terminal
<b>Property of the output Short-circuit proof</b>		Yes
<b>Outputs</b> <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

### Assignment of the data bits:

<b>Assignment of data bits</b> <ul style="list-style-type: none"> <li>• socket</li> <li>• socket 2</li> </ul>		PIN 4 = IN1 (D0), PIN 2 = IN2 (D1) PIN 4 = IN2 (D1)
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- socket 3
- socket 4
- socket 5
- socket 6
- socket 7
- socket 8

PIN 4 = IN3 (D2) , PIN 2 = IN4 (D3)  
 PIN 4 = IN4 (D3)  
 PIN4 = OUT1 (D0), PIN2 = OUT2 (D1)  
 PIN4 = OUT2 (D1)  
 PIN4 = OUT3 (D2), PIN2 = OUT4 (D3)  
 PIN4 = OUT4 (D3)

#### Ambient conditions:

<b>Ambient temperature</b>		
• during operation	°C	-25 ... +85
• during storage	°C	-40 ... +85
<b>Protection class IP</b>		IP67

#### Display:

<b>Status display</b>		
• display of I/Os		yellow LED
• display of Uaux		green LED
• display of AS-Interface/diagnostics		green/red LED

#### Mechanical data:

<b>Width</b>	mm	60
<b>Height</b>	mm	152
<b>Depth</b>	mm	29
<b>Mounting type</b>		standard rail mounting/wall mounting using mounting plate for K60 compact module

#### 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)

General Product Approval				Test Certificates	Shipping Approval
 CSA	 GOST	 UL		<a href="#">Special Test Certificate</a>	 ABS

Shipping Approval					other
 BUREAU VERITAS	 LRS	 PRS	 RINA	 RMRS	<a href="#">Confirmation</a>

other		
<a href="#">Declaration of Conformity</a>	<a href="#">Environmental Confirmations</a>	<a href="#">other</a>

#### 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**

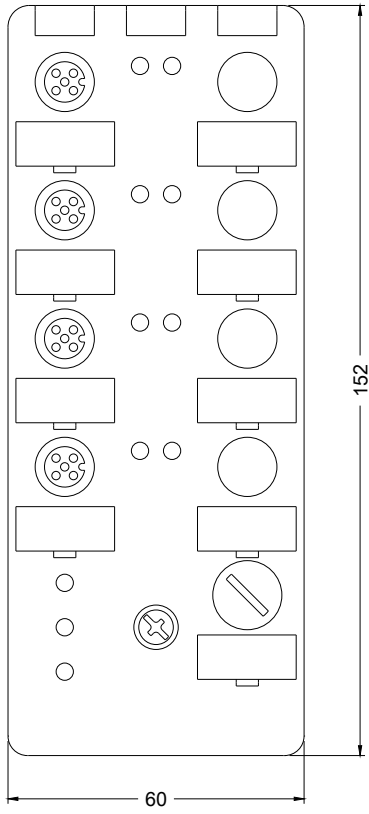
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK14001DQ010AA3>

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

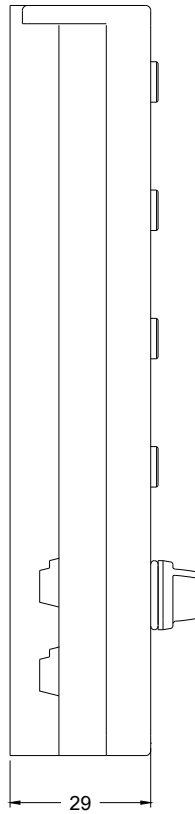
<http://support.automation.siemens.com/WW/view/en/3RK14001DQ010AA3/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK14001DQ010AA3&lang=en>



last modified:



15.01.2015