

Input coupler Optocoupler 1 NO contact, Transistor Input 24 V  
 AC/DC Output max. 30 V DC, 0.5 A Overall width 6.2 mm screw  
 terminal Thermal current 0.5 A



<b>Product brand name</b>	SIRIUS
<b>Product category</b>	SIRIUS 3RQ3 coupling relays in slim design
<b>Product designation</b>	Coupling relays with semiconductor output (not plug-in)
<b>Design of the product</b>	Input coupling link
<b>Product type designation</b>	3RQ3

General technical data	
<b>Display version LED</b>	Yes
<b>Product component</b>	
• Relay output	No
• semi-conductor output	Yes
<b>Consumed active power</b>	0.5 W
<b>Insulation voltage</b>	
• for overvoltage category III according to IEC 60664	
— with degree of pollution 3 rated value	50 V
<b>Surge voltage resistance rated value</b>	2.5 kV
<b>Protection class IP</b>	IP20
<b>Shock resistance</b>	
• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms

<b>Vibration resistance</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60068-2-6</li> </ul>	6 ... 150 Hz: 2 g
<b>Switching frequency</b>	0.1 Hz
<b>Thermal current</b>	0.5 A
<b>Reference code acc. to DIN EN 81346-2</b>	K

### Control circuit/ Control

<b>Control supply voltage at AC</b>	
<ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>	11 ... 30 V 11 ... 30 V
<b>Control supply voltage frequency</b>	
<ul style="list-style-type: none"> <li>• 1 rated value</li> <li>• 2 rated value</li> </ul>	50 Hz 60 Hz
<b>Control supply voltage at DC</b>	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	11 ... 30 V
<b>Operating range factor control supply voltage rated value at DC</b>	
<ul style="list-style-type: none"> <li>• initial value</li> <li>• Full-scale value</li> </ul>	1 1
<b>Operating range factor control supply voltage rated value at AC at 50 Hz</b>	
<ul style="list-style-type: none"> <li>• initial value</li> <li>• Full-scale value</li> </ul>	1 1
<b>Operating range factor control supply voltage rated value at AC at 60 Hz</b>	
<ul style="list-style-type: none"> <li>• initial value</li> <li>• Full-scale value</li> </ul>	1 1
<b>Switch-on delay time</b>	
<ul style="list-style-type: none"> <li>• at AC maximum</li> <li>• at DC maximum</li> </ul>	2 ms 1 ms
<b>Off-delay time</b>	4 ms
<b>Product component Plug-in socket</b>	No

### Auxiliary circuit

<b>Type of switching contact</b>	NO contact
<b>Number of NO contacts for auxiliary contacts</b>	1

### Main circuit

<b>Type of voltage</b>	AC/DC
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### Inputs/ Outputs

<b>Property of the output Short-circuit proof</b>	No
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### Outputs






<b>Ampacity of the semiconductor output at DC</b>	10 mA ... 0.5 A
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Electromagnetic compatibility	
<b>EMC emitted interference</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-1</li> </ul>	ambience A (industrial sector)
<b>EMI immunity</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-1</li> </ul>	corresponds to degree of severity 3
<b>Conducted interference</b>	
<ul style="list-style-type: none"> <li>• due to burst acc. to IEC 61000-4-4</li> </ul>	2 kV
<ul style="list-style-type: none"> <li>• due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV
<ul style="list-style-type: none"> <li>• due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV
<b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b>	10 V/m
<b>Electrostatic discharge acc. to IEC 61000-4-2</b>	6 kV contact discharge / 8 kV air discharge
Display	
<b>Display version</b>	
<ul style="list-style-type: none"> <li>• as status display by LED</li> </ul>	LED green
Connections/ Terminals	
<b>Product function</b>	
<ul style="list-style-type: none"> <li>• removable terminal</li> </ul>	No
<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>	screw-type terminals
<b>Wire length</b>	
<ul style="list-style-type: none"> <li>• at AC maximum</li> </ul>	500 m
<ul style="list-style-type: none"> <li>• at DC maximum</li> </ul>	1 000 m
<b>Type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>• solid</li> </ul>	1x (0.25 ... 2.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>	1x (0.25 ... 1.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• at AWG conductors solid</li> </ul>	1 x (20 ... 14)
<b>Connectable conductor cross-section</b>	
<ul style="list-style-type: none"> <li>• solid</li> </ul>	0.25 ... 2.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>	0.25 ... 1.5 mm <sup>2</sup>
<b>AWG number as coded connectable conductor cross section</b>	
<ul style="list-style-type: none"> <li>• solid</li> </ul>	20 ... 14
<b>Tightening torque</b>	
<ul style="list-style-type: none"> <li>• with screw-type terminals</li> </ul>	0.5 ... 0.6 N·m
Installation/ mounting/ dimensions	
<b>Mounting position</b>	any
<b>Mounting type</b>	snap-on mounting
<b>Height</b>	93 mm
<b>Width</b>	6.2 mm

<b>Depth</b>	72.5 mm
<b>Required spacing</b>	
<ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 0 mm</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— at the side 0 mm</li> <li>— downwards 0 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 0 mm</li> </ul> </li> </ul>	

<b>Ambient conditions</b>	
<b>Installation altitude at height above sea level</b>	
<ul style="list-style-type: none"> <li>• maximum 2 000 m</li> </ul>	
<b>Relative humidity</b>	
<ul style="list-style-type: none"> <li>• during operation 10 ... 95 %</li> </ul>	

**Certificates/ approvals**

General Product Approval	EMC	Declaration of Conformity
 CSA  UL  EAC	 RCM	 EG-Konf. <a href="#">Miscellaneous</a>

<b>Marine / Ship- ping</b>	<b>other</b>
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[Confirmation](#)

**Further information**

**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=3RQ3070-1SB30>

**Cax online generator**

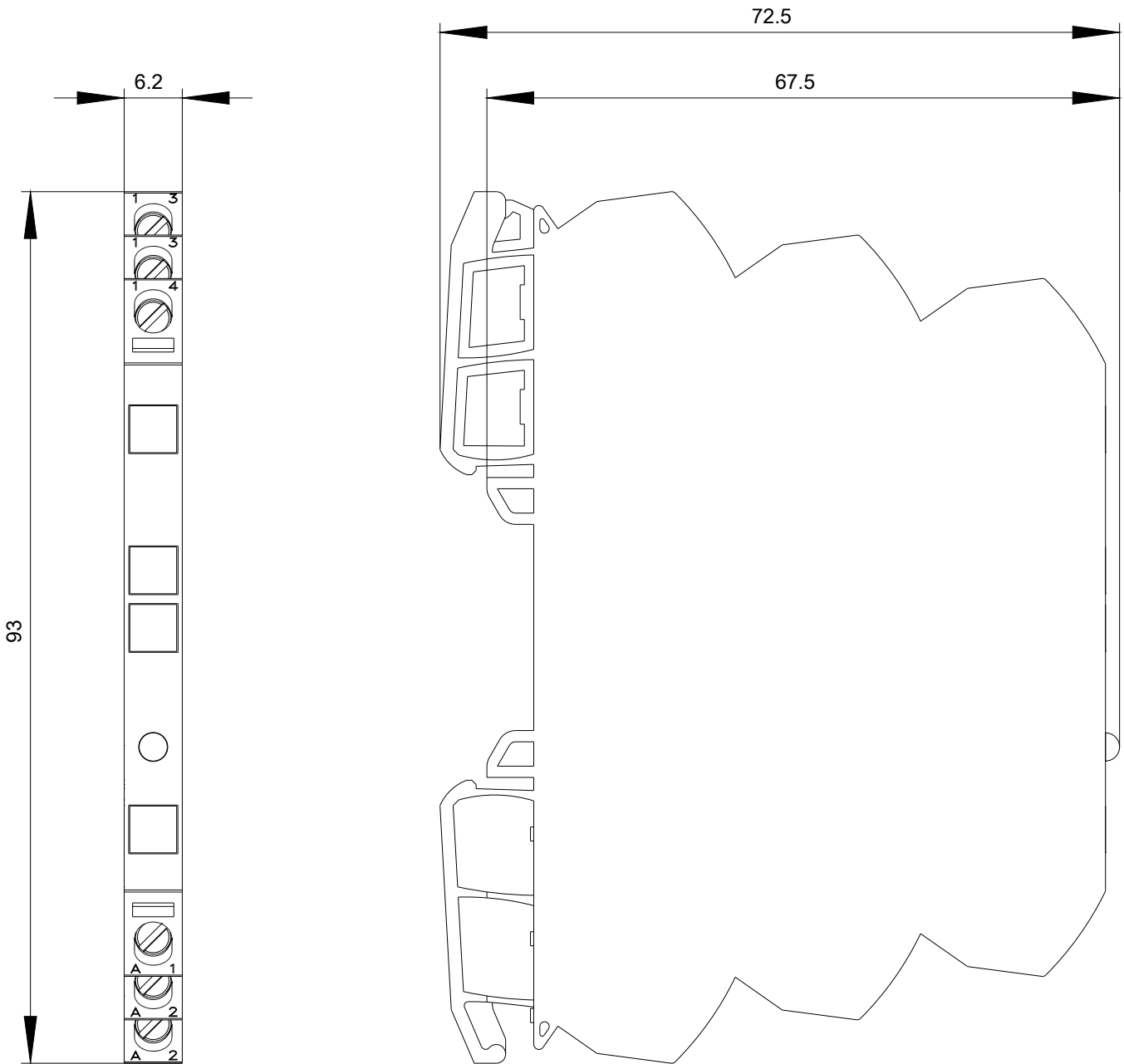
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3070-1SB30>

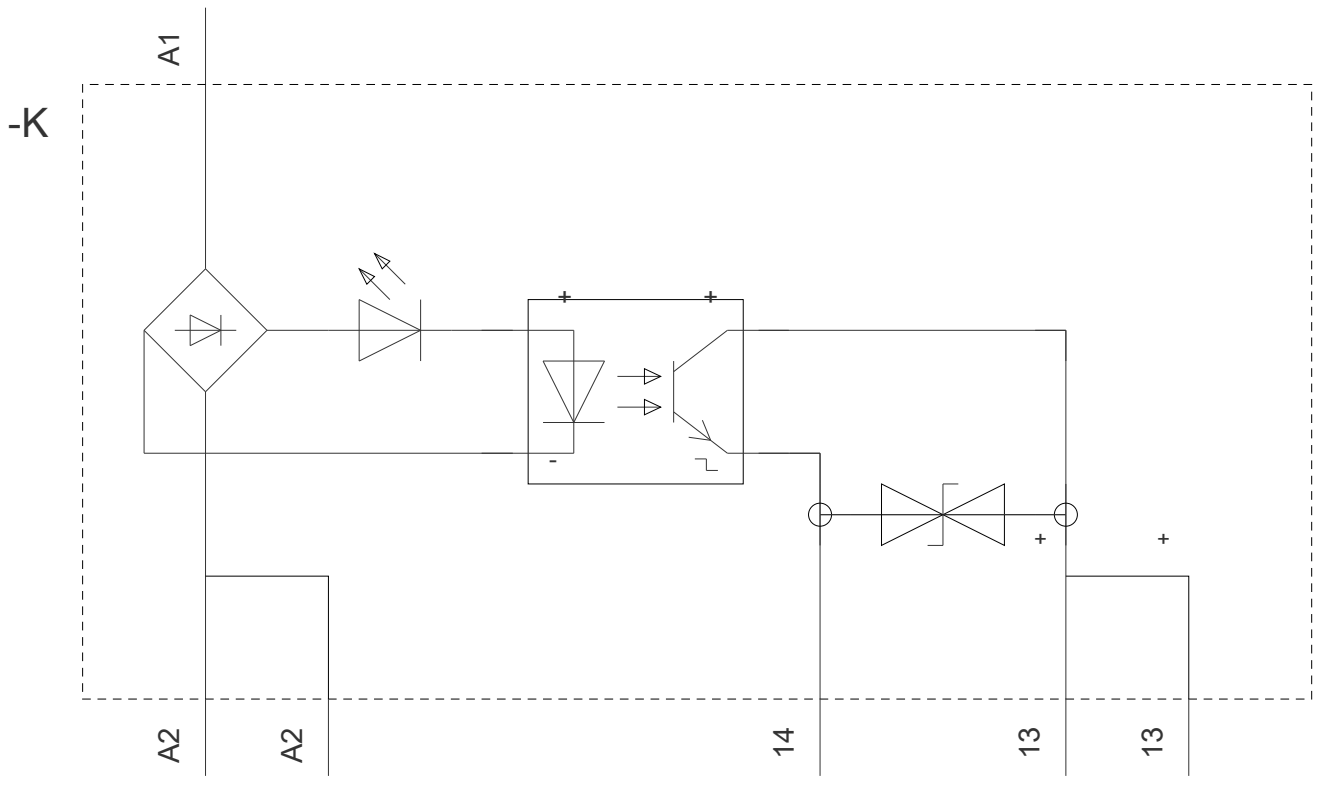
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3070-1SB30>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3070-1SB30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3070-1SB30&lang=en)





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