# **SIEMENS**

Data sheet 3RQ3070-2SG30



Input coupler Optocoupler 1 NO contact, transistor Input 110-230 V AC/DC Output max. 30 V DC, 0.5 A short circuit-proof Overall width 6.2 mm Spring-type terminal (push-in) thermal current 0.5 A

## Figure similar

### Article number

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

General technical data		
Display version LED		Yes
Product component		
Relay output		No
• semi-conductor output		Yes
Consumed active power	W	0.5
Surge voltage resistance rated value	kV	4
Protection class IP		IP20
Shock resistance		
● acc. to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms
Vibration resistance		

• acc. to IEC 60068-2-6		6 150 Hz: 2 g
Thermal current	Α	0.5
	. ^	0.5
Equipment marking		К
• acc. to DIN EN 61346-2		
● acc. to DIN EN 81346-2		К
Control circuit/ Control		
Control supply voltage at AC		
• at 50 Hz rated value	V	110 230
• at 60 Hz rated value	V	110 230
Control supply voltage at DC		
• rated value	V	110 230
Operating range factor control supply voltage rated value at DC		
• initial value		1
• Full-scale value		1
Operating range factor control supply voltage rated value at AC at 50 Hz		
• initial value		1
Full-scale value		1
Operating range factor control supply voltage rated		
value at AC at 60 Hz		
• initial value		1
Full-scale value		1
Off-delay time	ms	7
Product component Plug-in socket		No
Auxiliary circuit		
Type of switching contact		NO contact
Number of NO contacts		
• for auxiliary contacts		1
Main circuit		
Type of voltage		AC/DC
Inputs/ Outputs		
Property of the output Short-circuit proof		No
Electromagnetic compatibility		
EMC emitted interference		
• acc. to IEC 60947-1		ambience A (industrial sector)
EMI immunity		
• acc. to IEC 60947-1		corresponds to degree of severity 3
Conducted interference		
• due to burst acc. to IEC 61000-4-4		2 kV

<ul> <li>due to conductor-earth surge acc. to IEC</li> <li>61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge

Display	
Display version	
<ul> <li>as status display by LED</li> </ul>	LED green

Connections/Terminals		
Product function		
• removable terminal		No
Type of electrical connection		
<ul> <li>for auxiliary and control current circuit</li> </ul>		PUSH-IN connection (spring-loaded connection)
Wire length		
at AC maximum	m	500
• at DC maximum	m	1 000
Type of connectable conductor cross-sections		
• solid		1x (0.25 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		1x (0.25 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>		1x (0.25 2.5 mm²)
<ul> <li>at AWG conductors solid</li> </ul>		1 x (20 14)
<ul> <li>at AWG conductors stranded</li> </ul>		1x (20 14)
Connectable conductor cross-section		
• solid	mm²	0.25 2.5
<ul> <li>finely stranded with core end processing</li> </ul>	mm²	0.25 1.5
<ul> <li>finely stranded without core end processing</li> </ul>	mm²	0.25 2.5
AWG number as coded connectable conductor cross		
section		
• solid		20 14
• stranded		20 14

Installation/ mounting/ dimensions			
Mounting position		any	
Mounting type		snap-on mounting	
Height	mm	93	
Width	mm	6.2	
Depth	mm	72.5	
Required spacing			
<ul><li>with side-by-side mounting</li></ul>			
— forwards	mm	0	
— Backwards	mm	0	

— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	0
— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0

Ambient conditions			
Installation altitude at height above sea level			
• maximum	m	2 000	
Ambient temperature			
<ul><li>during operation</li></ul>	°C	-25 <b>+</b> 60	
during storage	°C	-40 <b>+</b> 85	
during transport	°C	-40 <b>+</b> 85	
Relative humidity			
<ul> <li>during operation</li> </ul>	%	10 95	

#### Certificates/approvals

General Product Approval	Declaration of	other
	Conformity	











Confirmation

#### **Further information**

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3070-2SG30

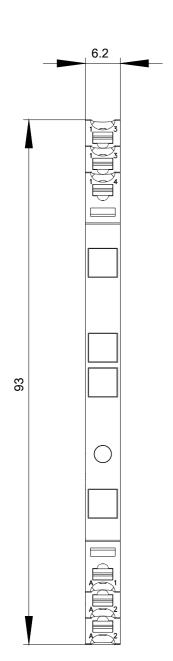
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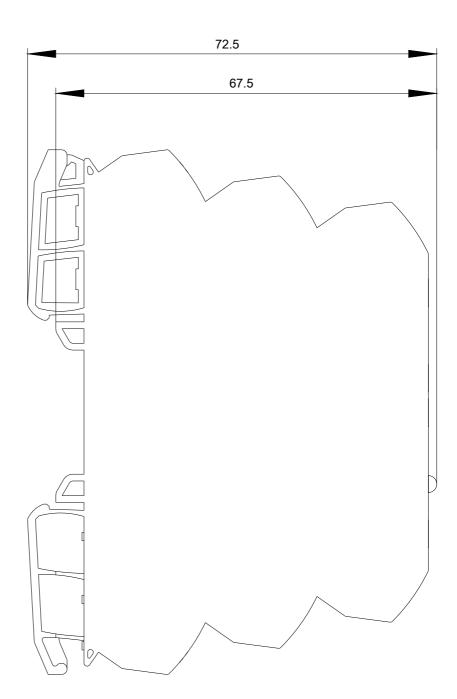
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RQ3070-2SG30}\\$ 

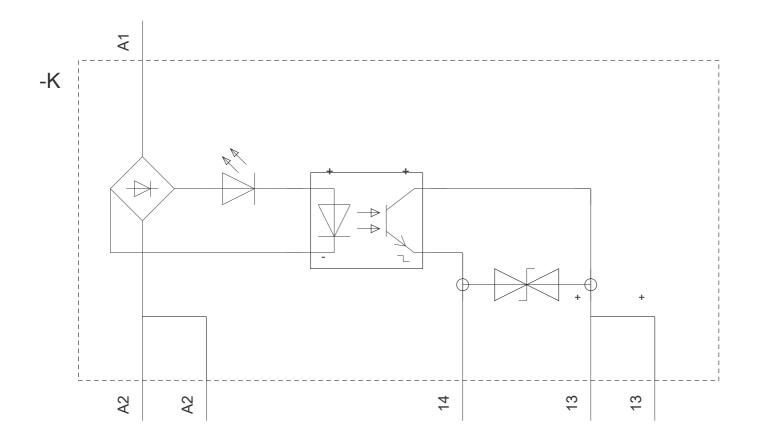
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3070-2SG30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ3070-2SG30&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ3070-2SG30&lang=en</a>







last modified: 09/12/2017