



Figure similar

!!! product phase-out !!! the preferred successor is 3UG5501-1AW30 analog monitoring relay level monitoring resistance monitoring from 2 to 200 kohm overshoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC 2-step or 1-step control tripping delay 0.5 to 10 s 1 changeover contact screw terminal

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Level monitoring relay with analog setting
<b>product type designation</b>	3UG4
manufacturer's article number of the optional sensor	2-pole and 3-pole sensors 3UG3207
<b>General technical data</b>	
<b>product function</b>	Monitoring relay for level monitoring
<b>display version LED</b>	Yes
<ul style="list-style-type: none"> <li>• Apparent power consumption at DC                             <ul style="list-style-type: none"> <li>— at 24 V maximum</li> <li>— at 240 V maximum</li> </ul> </li> <li>• apparent power consumption at AC                             <ul style="list-style-type: none"> <li>— at 24 V maximum</li> <li>— at 240 V maximum</li> </ul> </li> </ul>	2 VA 4 VA 2 VA 4 VA
<b>insulation voltage</b>	300 V
<ul style="list-style-type: none"> <li>• for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value</li> </ul>	
<b>degree of pollution</b>	3
<b>type of voltage</b>	AC/DC
<ul style="list-style-type: none"> <li>• of the operating voltage for actuation</li> <li>• of the control supply voltage</li> </ul>	AC/DC
<b>surge voltage resistance rated value</b>	4 kV
<b>shock resistance according to IEC 60068-2-27</b>	sinusoidal half-wave 15 g / 11 ms
<b>vibration resistance according to IEC 60068-2-6</b>	1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g
<b>mechanical service life (operating cycles) typical</b>	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
<b>reference code according to IEC 81346-2</b>	K
<b>relative repeat accuracy</b>	1 %
<b>Substance Prohibitance (Date)</b>	05/01/2012
<b>SVHC substance name</b>	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
<b>Net Weight</b>	0.144 kg
<b>Product Function</b>	
<b>product function</b>	
<ul style="list-style-type: none"> <li>• outlet monitoring adjustable</li> <li>• adjustable responsiveness</li> </ul>	Yes Yes

<ul style="list-style-type: none"> <li>inlet monitoring adjustable</li> </ul>	Yes
<ul style="list-style-type: none"> <li>external reset</li> </ul>	Yes
<b>Control circuit/ Control</b>	
<b>control supply voltage at AC</b>	
<ul style="list-style-type: none"> <li>at 50 Hz rated value</li> </ul>	24 ... 240 V
<ul style="list-style-type: none"> <li>at 60 Hz rated value</li> </ul>	24 ... 240 V
<b>control supply voltage at DC rated value</b>	24 ... 240 V
<b>operating range factor control supply voltage rated value at DC</b>	
<ul style="list-style-type: none"> <li>initial value</li> </ul>	0.85
<ul style="list-style-type: none"> <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> </ul>	0.85
<ul style="list-style-type: none"> <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> </ul>	0.85
<ul style="list-style-type: none"> <li>full-scale value</li> </ul>	1.1
<b>Measuring circuit</b>	
<b>adjustable response delay time</b>	
<ul style="list-style-type: none"> <li>when starting</li> </ul>	0.5 ... 10 s
<ul style="list-style-type: none"> <li>with lower or upper limit violation</li> </ul>	0.5 ... 10 s
<b>buffering time in the event of power failure minimum</b>	200 ms
<b>response time maximum</b>	300 ms
<b>physical measuring principle</b>	conductive
<b>Precision</b>	
<b>relative metering precision</b>	20 %
<b>temperature drift per °C</b>	1 %/°C
<b>Auxiliary circuit</b>	
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
<b>number of CO contacts</b>	
<ul style="list-style-type: none"> <li>delayed switching</li> </ul>	1
<b>operating frequency with 3RT2 contactor maximum</b>	5 000 1/h
<b>ampacity of the output relay at AC-15</b>	
<ul style="list-style-type: none"> <li>at 250 V at 50/60 Hz</li> </ul>	3 A
<ul style="list-style-type: none"> <li>at 400 V at 50/60 Hz</li> </ul>	3 A
<b>ampacity of the output relay at DC-13</b>	
<ul style="list-style-type: none"> <li>at 24 V</li> </ul>	1 A
<ul style="list-style-type: none"> <li>at 125 V</li> </ul>	0.2 A
<ul style="list-style-type: none"> <li>at 250 V</li> </ul>	0.1 A
<b>operational current at 17 V minimum</b>	5 mA
<b>continuous current of the DIAZED fuse link of the output relay</b>	4 A
<b>Electromagnetic compatibility</b>	
<b>conducted interference</b>	
<ul style="list-style-type: none"> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV
<ul style="list-style-type: none"> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul style="list-style-type: none"> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	6 kV contact discharge / 8 kV air discharge
<b>Galvanic isolation</b>	
<b>galvanic isolation</b>	
<ul style="list-style-type: none"> <li>between input and output</li> </ul>	Yes
<ul style="list-style-type: none"> <li>between the outputs</li> </ul>	No
<b>Electrical Safety</b>	
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>Connections/ Terminals</b>	

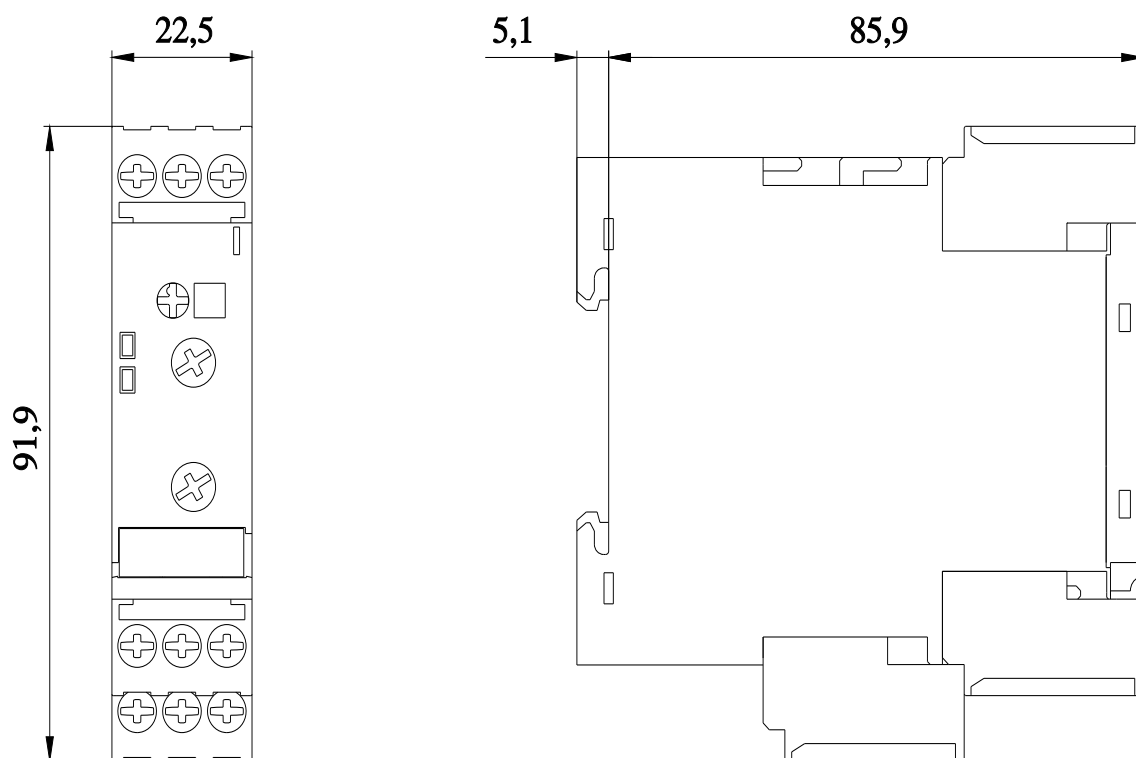
<b>product component removable terminal for auxiliary and control circuit</b>	Yes	
<b>type of electrical connection</b>	screw terminal	
<b>type of connectable conductor cross-sections</b>		
• solid	1x (0.5 ... 4 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )	
• finely stranded with core end processing	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )	
• for AWG cables solid	2x (20 ... 14)	
• for AWG cables stranded	2x (20 ... 14)	
<b>connectable conductor cross-section</b>		
• solid	0.5 ... 4 mm <sup>2</sup>	
• finely stranded with core end processing	0.5 ... 2.5 mm <sup>2</sup>	
<b>AWG number as coded connectable conductor cross section</b>		
• solid	20 ... 14	
• stranded	20 ... 14	
tightening torque with screw-type terminals	0.8 ... 1.2 N·m	
<b>Installation/ mounting/ dimensions</b>		
<b>mounting position</b>	any	
<b>fastening method</b>	screw and snap-on mounting	
<b>height</b>	92 mm	
<b>width</b>	22.5 mm	
<b>depth</b>	91 mm	
<b>required spacing</b>		
• with side-by-side mounting		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	0 mm	
• for grounded parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— at the side	0 mm	
— downwards	0 mm	
• for live parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	0 mm	
<b>Ambient conditions</b>		
installation altitude at height above sea level maximum	2 000 m	
<b>ambient temperature</b>		
• during operation	-25 ... +60 °C	
• during storage	-40 ... +80 °C	
• during transport	-40 ... +80 °C	
<b>Approvals Certificates</b>		
<b>Environmental Product Declaration</b>		
• global warming potential [CO <sub>2</sub> eq] / during manufacturing	3.51 kg	
• global warming potential [CO <sub>2</sub> eq] / during sales	0.0276 kg	
• global warming potential [CO <sub>2</sub> eq] / during operation	13.7 kg	
• global warming potential [CO <sub>2</sub> eq] / after end of life	-1.12 kg	
• global warming potential [CO <sub>2</sub> eq] / total	16.1 kg	
<b>Environment</b>	<b>General Product Approval</b>	<b>EMV</b>

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#### 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=3UG4501-1AW30>**Cax online generator**<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4501-1AW30>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/3UG4501-1AW30>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UG4501-1AW30&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4501-1AW30&lang=en)

last modified:

4/4/2026