



Figure similar

Analog monitoring relay Fill 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 change-over contact screw terminal Successor product for 3UG3501

| | |
|--|--|
| product brand name | SIRIUS |
| product designation | Level monitoring relay with analog setting |
| product type designation | 3UG4 |
| manufacturer's article number of the optional sensor | 2-pole and 3-pole sensors 3UG3207 |
| General technical data | |
| product function | Monitoring relay for level monitoring |
| display version LED | Yes |
| <ul style="list-style-type: none"> • Apparent power consumption at DC <ul style="list-style-type: none"> — at 24 V maximum — at 240 V maximum • apparent power consumption at AC <ul style="list-style-type: none"> — at 24 V maximum — at 240 V maximum | 2 VA 4 VA 2 VA 4 VA |
| insulation voltage | 300 V |
| <ul style="list-style-type: none"> • for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | |
| degree of pollution | 3 |
| type of voltage | AC/DC |
| <ul style="list-style-type: none"> • of the control supply voltage | |
| surge voltage resistance rated value | 4 kV |
| protection class IP | IP20 |
| shock resistance according to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms |
| vibration resistance according to IEC 60068-2-6 | 1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g |
| mechanical service life (operating cycles) typical | 10 000 000 |
| electrical endurance (operating cycles) at AC-15 at 230 V typical | 100 000 |
| reference code according to IEC 81346-2 | K |
| relative repeat accuracy | 1 % |
| Substance Prohibitance (Date) | 05/01/2012 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 |
| Weight | 0.144 kg |
| Product Function | |
| product function | |
| <ul style="list-style-type: none"> • outlet monitoring adjustable • adjustable responsiveness • inlet monitoring adjustable • external reset | Yes Yes Yes Yes |
| Control circuit/ Control | |

| | |
|---|--|
| control supply voltage at AC | |
| • at 50 Hz rated value | 24 ... 240 V |
| • at 60 Hz rated value | 24 ... 240 V |
| control supply voltage at DC rated value | 24 ... 240 V |
| operating range factor control supply voltage rated value at DC | |
| • initial value | 0.85 |
| • full-scale value | 1.1 |
| operating range factor control supply voltage rated value at AC at 50 Hz | |
| • initial value | 0.85 |
| • full-scale value | 1.1 |
| operating range factor control supply voltage rated value at AC at 60 Hz | |
| • initial value | 0.85 |
| • full-scale value | 1.1 |
| Measuring circuit | |
| adjustable response delay time | |
| • when starting | 0.5 ... 10 s |
| • with lower or upper limit violation | 0.5 ... 10 s |
| buffering time in the event of power failure minimum | 200 ms |
| physical measuring principle | conductive |
| Precision | |
| relative metering precision | 20 % |
| temperature drift per °C | 1 %/°C |
| Auxiliary circuit | |
| number of NC contacts delayed switching | 0 |
| number of NO contacts delayed switching | 0 |
| number of CO contacts | |
| • delayed switching | 1 |
| operating frequency with 3RT2 contactor maximum | 5 000 1/h |
| ampacity of the output relay at AC-15 | |
| • at 250 V at 50/60 Hz | 3 A |
| • at 400 V at 50/60 Hz | 3 A |
| ampacity of the output relay at DC-13 | |
| • at 24 V | 1 A |
| • at 125 V | 0.2 A |
| • at 250 V | 0.1 A |
| operational current at 17 V minimum | 5 mA |
| continuous current of the DIAZED fuse link of the output relay | 4 A |
| Electromagnetic compatibility | |
| conducted interference | |
| • due to burst according to IEC 61000-4-4 | 2 kV |
| • due to conductor-earth surge according to IEC 61000-4-5 | 2 kV |
| • due to conductor-conductor surge according to IEC 61000-4-5 | 1 kV |
| field-based interference according to IEC 61000-4-3 | 10 V/m |
| electrostatic discharge according to IEC 61000-4-2 | 6 kV contact discharge / 8 kV air discharge |
| Galvanic isolation | |
| galvanic isolation | |
| • between input and output | Yes |
| • between the outputs | No |
| Electrical Safety | |
| protection class IP on the front according to IEC 60529 | IP20 |
| Connections/ Terminals | |
| product component removable terminal for auxiliary and control circuit | Yes |
| type of electrical connection | screw terminal |
| type of connectable conductor cross-sections | |
| • solid | 1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²) |
| • finely stranded with core end processing | 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²) |

| | |
|---|--|
| <ul style="list-style-type: none"> • for AWG cables solid • for AWG cables stranded | 2x (20 ... 14) 2x (20 ... 14) |
| connectable conductor cross-section | |
| <ul style="list-style-type: none"> • solid • finely stranded with core end processing | 0.5 ... 4 mm ² 0.5 ... 2.5 mm ² |
| AWG number as coded connectable conductor cross section | |
| <ul style="list-style-type: none"> • solid • stranded | 20 ... 14 20 ... 14 |
| tightening torque with screw-type terminals | 0.8 ... 1.2 N·m |

Installation/ mounting/ dimensions

| | |
|--|--|
| mounting position | any |
| fastening method | screw and snap-on mounting |
| height | 92 mm |
| width | 22.5 mm |
| depth | 91 mm |
| required spacing | |
| <ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — backwards — upwards — downwards — at the side • for grounded parts <ul style="list-style-type: none"> — forwards — backwards — upwards — at the side — downwards • for live parts <ul style="list-style-type: none"> — forwards — backwards — upwards — downwards — at the side | 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm |

Ambient conditions

| | |
|--|--|
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport | -25 ... +60 °C -40 ... +80 °C -40 ... +80 °C |

Approvals Certificates

General Product Approval



[Confirmation](#)



| | | |
|-----|-------------------|-------------------|
| EMV | Test Certificates | Marine / Shipping |
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[KC](#)

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| other | Railway | Environment |
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**Further information****Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4501-1AW30>

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

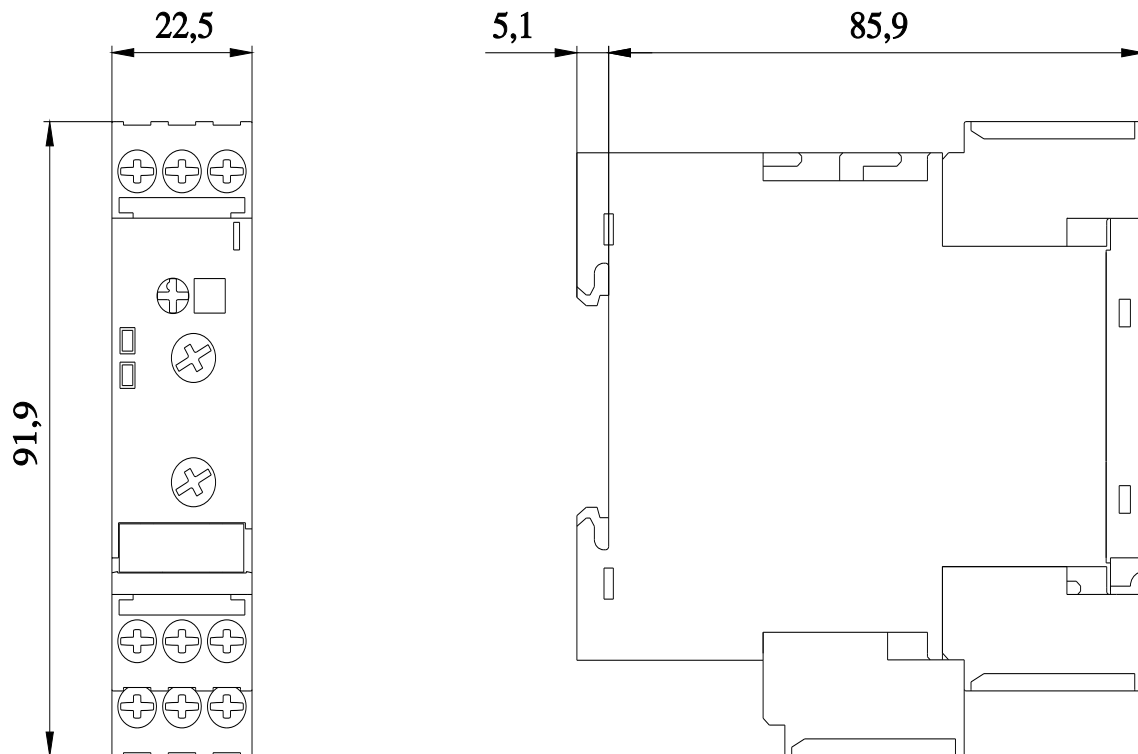
<https://support.industry.siemens.com/cs/ww/en/ps/3UG4501-1AW30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4501-1AW30&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3UG4501-1AW30/manual>



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