# **SIEMENS**

Data sheet 3UG4501-2AA30



Analog monitoring relay Fill level monitoring Resistance monitoring from 2 to 200 kohm 0vershoot and undershoot Supply voltage 24 V AC/DC 50 to 60 Hz DC and AC without galvanic isolation to measuring circuit 2-step or 1-step control Tripping delay 0.5 to 10 s 1 change-over contact spring-type connection system

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> <li>Apparent power consumption at DC</li> </ul>			
— at 24 V maximum	2 VA		
<ul> <li>apparent power consumption at AC</li> </ul>			
— at 24 V maximum	2 VA		
insulation voltage			
<ul> <li>for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value</li> </ul>	300 V		
degree of pollution	3		
type of voltage			
of the control supply voltage	AC/DC		
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		
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	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8		
Product Function			
product function			
<ul> <li>outlet monitoring adjustable</li> </ul>	Yes		
<ul> <li>adjustable responsiveness</li> </ul>	Yes		
<ul> <li>inlet monitoring adjustable</li> </ul>	Yes		
external reset	Yes		
Control circuit/ Control			
control supply voltage at AC			
• at 50 Hz rated value	24 24 V		
at 60 Hz rated value	24 24 V		
control supply voltage at DC			
rated value	24 24 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	4	
delayed switching	1 5 000 1/h	
operating frequency with 3RT2 contactor maximum	5 000 1/11	
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	4 A	
relay		
Electromagnetic compatibility		
conducted interference	211	
due to burst according to IEC 61000-4-4  due to sandwake and the same according to IEC 64000 4.5.	2 kV	
due to conductor-earth surge according to IEC 61000-4-5     due to conductor conductor surge according to IEC.	2 kV	
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	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		
<ul> <li>between input and output</li> </ul>	Yes	
between the outputs	No	
Connections/ Terminals		
product component removable terminal for auxiliary and control circuit	Yes	
type of electrical connection	spring-loaded terminals	
type of connectable conductor cross-sections		
• solid	2x (0.25 1.5 mm²)	
• finely stranded with core end processing	2 x (0.25 1.5 mm²)	
• finely stranded without core end processing	2x (0.25 1.5 mm²)	
• for AWG cables solid	2x (24 16)	
• for AWG cables stranded	2x (24 16)	
connectable conductor cross-section		
• solid	0.25 1.5 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>	

finely stranded without core end processing	0.25 1.5 mm²		
AWG number as coded connectable conductor cross section			
• solid	24 16		
stranded	24 16		
tightening torque with screw-type terminals	0.8 1.2 N·m		
nstallation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting		
height	94 mm		
width	22.5 mm		
depth	91 mm		
required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— 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		
mbient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-25 +60 °C		
during storage	-40 +80 °C		
during transport	-40 +80 °C		
pprovals Certificates			
General Product Approval		EMC	Declaration of Corformity

Confirmation



EAC





Declaration of Conformity

**Test Certificates** 

Marine / Shipping

other

Special Test Certificate

Type Test Certificates/Test Report





Confirmation

Railway

Vibration and Shock

### **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

### Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

### 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=3UG4501-2AA30

## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4501-2AA30

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

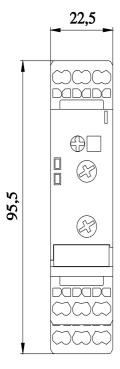
https://support.industry.siemens.com/cs/ww/en/ps/3UG4501-2AA30

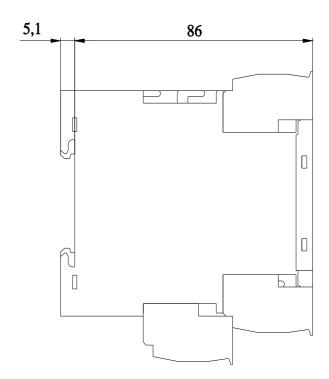
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4501-2AA30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3UG4501-2AA30/manual





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