## **SIEMENS**

Data sheet 3UG4501-1AW30



Analog monitoring relay Fill level monitoring Resistance monitoring from 2 to 200 kohm 0vershoot 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

Figure similar

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 V·A				
— at 240 V maximum	4 V·A				
<ul> <li>apparent power consumption at AC</li> </ul>					
— at 24 V maximum	2 V·A				
— at 240 V maximum	4 V·A				
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 acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms				
vibration resistance acc. to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g				
mechanical service life (switching cycles) typical	10 000 000				
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000				
reference code acc. to IEC 81346-2	K				
relative repeat accuracy	1 %				
Substance Prohibitance (Date)	01.05.2012				
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	24 240 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	
<ul><li>due to burst acc. to IEC 61000-4-4</li></ul>	2 kV
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
• due to conductor-conductor surge acc. to IEC     61000-4-5	1 kV
field-based interference 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
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	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>at AWG cables solid</li> </ul>	2x (20 14)
<ul> <li>at AWG cables stranded</li> </ul>	2x (20 14)
<del></del>	

connectable conductor cross-section							
• solid		. 4 mm²					
finely stranded with core end processing	0.5	0.5 2.5 mm²					
AWG number as coded connectable conductor cross section							
• solid	20 14						
stranded	20 14						
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	92 m	92 mm					
width	22.5	mm					
depth	91 m	m					
required spacing							
<ul><li>with side-by-side mounting</li></ul>							
— forwards	0 mm						
— backwards	0 mn	ı					
— upwards	0 mn	ı					
— downwards	0 mm						
— at the side	0 mm						
<ul> <li>for grounded parts</li> </ul>							
— forwards	0 mn	ı					
— backwards	0 mn	ı					
— upwards	0 mn	ı					
— at the side	0 mm						
— downwards	0 mm						
for live parts							
— forwards	0 mn	ı					
— backwards	0 mn	ı					
— upwards	0 mn	ı					
— downwards	0 mn	ı					
— at the side	0 mm						
Ambient 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						
Certificates/ approvals							
General Product Approval		EMC	Declaration of Conformity	Test Certificates			











**Special Test Certific-**<u>ate</u>

**Test Certificates** 

Marine / Shipping

other

Railway

Type Test Certificates/Test Report





Confirmation

Vibration and Shock

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=3UG4501-1AW30

Cax online generator

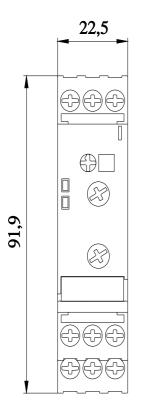
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4501-1AW30

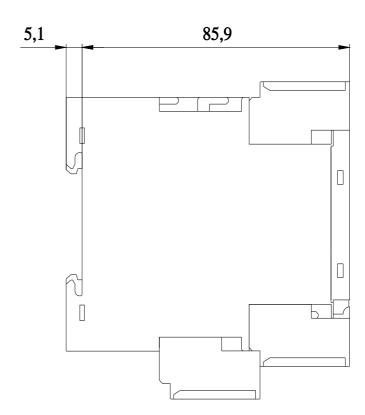
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4501-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4501-1AW30&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4501-1AW30&lang=en</a>

**Characteristic: Derating** 

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