SIEMENS

Data sheet 3UG4501-1AW30



ANALOG MONITORING RELAY FILL LEVEL
MONITORING RESISTANCE MONITORING FROM 2
TO 200 KOHM OVERSHOOT AND UNDERSHOOT
AC/DC 24 TO 240V DC AND AC 50 TO 60 HZ 2-POINT
OR 1-POINT CONTROL TRIPPING DELAYED 0.5 TO
10S 1 CHANGEOVER CONTACT SCREW TERMINAL
REPLACEMENT PRODUCT F. 3UG3501

Figure similar

Product function		Monitoring relay for level monitoring	
Measuring circuit:			
Adjustable response delay time			
when starting	s	0.5 10	
 with lower or upper limit violation 	S	0.5 10	
Adjustable response value impedance	kΩ	2 200	
Measuring electrode current maximum	mA	1	
Measuring electrode voltage maximum	V	15	
Number of measuring circuits		1	
Buffering time in the event of power failure minimum	ms	200	
General technical data:			
Response time maximum	ms	300	
Relative metering precision	%	20	
Temperature drift per °C	%/°C	1	
Relative repeat accuracy	%	1	
Manufacturer's article number of the optional sensor		2-pole and 3-pole sensors 3UG3207	
Wire length of sensor maximum	m	100	

Display version LED		Yes
Product function		
 Adjustable response sensitivity 		Yes
outlet monitoring adjustable		Yes
inlet monitoring adjustable		Yes
External reset		Yes
Starting time after the control supply voltage has	ms	500
been applied		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage		
• at AC		
— at 50 Hz rated value	V	24 240
— at 60 Hz rated value	V	24 240
• at DC rated value	V	24 240
Operating range factor control supply voltage rated		
value		
• at AC		
— at 50 Hz		0.85 1.1
— at 60 Hz		0.85 1.1
• at DC		0.85 1.1
Surge voltage resistance rated value	kV	4
Consumed active power	W	2
Protection class IP		IP20
Electromagnetic compatibility		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
Vibration resistance acc. to IEC 60068-2-6		1 6 Hz: 15 mm, 6 500 Hz: 2g
Shock resistance acc. to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms
Installation altitude at height above sea level maximum	m	2 000
Conducted interference due to burst acc. to IEC		2 kV
61000-4-4		
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV
Electrostatic discharge acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
Insulation voltage for overvoltage category III	V	300
according to IEC 60664 with degree of pollution 3		
rated value		2
Degree of pollution		3
Apparent power consumption at AC	\/ A	2
• at 24 V maximum	V·A	2
at 240 V maximum	V·A	4

during operation	°C	-25 + 60
during storage	°C	-40 +80
 during transport 	°C	-40 +80
Galvanic isolation		
 between entrance and outlet 		Yes
• between the outputs		No

botwoon the outputs		
Mechanical data:		
Width	mm	22.5
Height	mm	92
Depth	mm	91
Mounting position		any
Required spacing for grounded parts		
• forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
Required spacing with side-by-side mounting		
• forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
Required spacing for live parts		
• forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
Mounting type		screw and snap-on mounting
Product function 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)
• finely stranded		
— with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
• at AWG conductors		
— solid		2x (20 14)
— stranded		2x (20 14)
Tightening torque with screw-type terminals	N·m	0.8 1.2

Outputs:		
Number of NO contacts delayed switching		0
Number of NC contacts delayed switching		0
Number of CO contacts delayed switching		1
Ampacity of the output relay		
● at AC-15		
— at 250 V at 50/60 Hz	Α	3
— at 400 V at 50/60 Hz	Α	3
• at DC-13		
— at 24 V	Α	1
— at 125 V	Α	0.2
— at 250 V	Α	0.1
Operating current at 17 V minimum	mA	5
Continuous current of the DIAZED fuse link of the output relay	Α	4
Mechanical service life (switching cycles) typical		10 000 000
Electrical endurance (switching cycles) at AC-15 at 230 V typical		100 000
Operating frequency with 3RT2 contactor maximum	1/h	5 000

(`Artitics	itae/ a	nnrol	/alc:
Certifica	исэ/ а	יטוקקו	alo.

General Product Approval	EMC	Declaration of	Test
		Conformity	Certificates











Type Test Certificates/Test Report

Test Certificates	Shipping Approval	other	Railway
Special Test Certificate	Lloyd's Register	Confirmation	Vibration and Shock
	LRS		

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

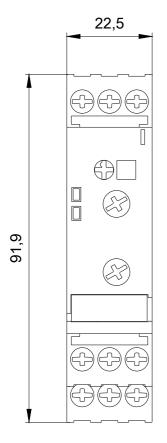
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

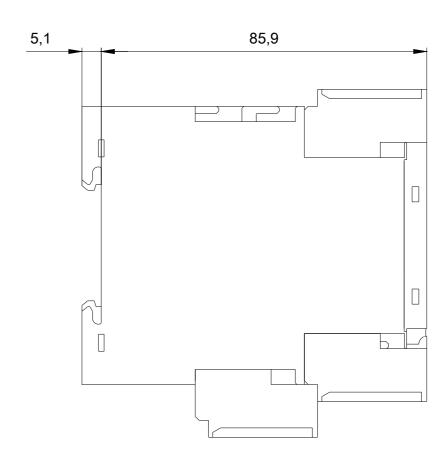
Cax online generator

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





last modified: 08/12/2017