



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 article number of the optional sensor		2-pole and 3-pole sensors 3UG3207
Cable 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
Startup time after the control supply voltage has been applied	ms	500

Type of voltage of the control supply voltage		AC/DC
Control supply voltage		
<ul style="list-style-type: none"> • with AC <ul style="list-style-type: none"> — at 50 Hz Rated value — at 60 Hz Rated value • for DC Rated value 	V V V	24 ... 240 24 ... 240 24 ... 240
Operating range factor control supply voltage rated value		
<ul style="list-style-type: none"> • with AC <ul style="list-style-type: none"> — at 50 Hz — at 60 Hz • for DC 		0.85 ... 1.1 0.85 ... 1.1 0.85 ... 1.1
Surge voltage resistance Rated value	kV	4
Active power consumption	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 61000-4-4		2 kV
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 according to IEC 60664 with degree of pollution 3 Rated value	V	300
Degree of pollution		3
Apparent power consumption with AC		
<ul style="list-style-type: none"> • at 24 V maximum • at 240 V maximum 	V·A V·A	2 4
Ambient temperature		
<ul style="list-style-type: none"> • during operation • during storage • during transport 	°C °C °C	-25 ... +60 -40 ... +80 -40 ... +80
Galvanic isolation		
<ul style="list-style-type: none"> • between entrance and outlet • between the outputs 		Yes No

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-section		
• 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)
• for 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	A	3
— at 400 V at 50/60 Hz	A	3

- at DC-13
 - at 24 V
 - at 125 V
 - at 250 V

	A	1
	A	0.2
	A	0.1
Operating current at 17 V minimum	mA	5
Continuous current of the DIAZED fuse link of the output relay	A	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

Certificates/ approvals:

General Product Approval	EMC	Test Certificates
 CCC	 EAC	 UL
	 C-TICK	Type Test Certificates/Test Report
		Special Test Certificate
Shipping Approval	other	
 DNV	 GL	 LRS
	Declaration of Conformity	other

Further information

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

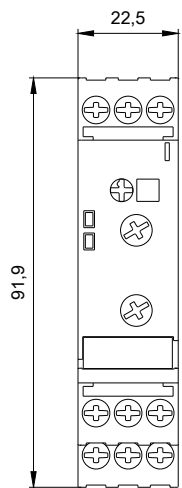
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG45011AW30>

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

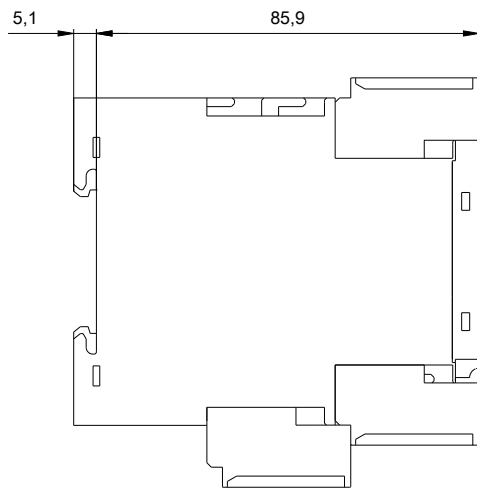
<https://support.industry.siemens.com/cs/ww/en/ps/3UG45011AW30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG45011AW30&lang=en



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