

PRODUCT-DETAILS

# CM-ENS.21S

## CM-ENS.21S Liquid level monitoring relay 1c/o, sensitivity 0.1-1000kOhm



### General Information

Extended Product Type	CM-ENS.21S
Product ID	1SVR730850R0200
EAN	4013614502927
Catalog Description	CM-ENS.21S Liquid level monitoring relay 1c/o, sensitivity 0.1-1000kOhm
Long Description	<p>The CM-ENS.21S belongs to the CM liquid level monitoring relay range. It operates with a rated control supply voltage of 24 - 240 V AC/DC and has a 1 c/o (SPDT) output with contacts rated at 250 V / 4 A. It monitors liquid levels of conductive fluids and protects pumps against dry running or tanks against overflow. The working principle as well as the sensitivity can be selected via front-face potentiometers. Several electrodes and a sealable transparent cover for protection against unauthorized changes are available as accessory. The device offers screw connection technology with double-chamber cage connection terminals.</p>

### Ordering

EAN	4013614502927
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

### Popular Downloads

Data Sheet, Technical Information	2CDC112229D0201
Instructions and Manuals	1SVC730680M1001

1SVC730680M0001

CAD Dimensional Drawing 2CDC001079B0201

## Dimensions

Product Net Width	22.5 mm
Product Net Height	85.6 mm
Product Net Depth / Length	103.7 mm
Product Net Weight	0.125 kg

## Technical

Function	Filling or draining monitoring
Number of Electrodes	3
Measuring Range	0 1 ... 1000 kΩ
Rated Control Supply Voltage ( $U_s$ )	24 ... 240 V AC/DC
Rated Frequency (f)	Supply Circuit 50/60 Hz
Output	1 c/o (SPDT) contact
Terminal Type	Screw Terminals
Rated Operational Current AC-12 ( $I_{\theta}$ )	(230 V) 4 A
Rated Operational Current AC-15 ( $I_{\theta}$ )	(230 V) 3 A
Rated Operational Current DC-12 ( $I_{\theta}$ )	(24 V) 4 A
Rated Operational Current DC-13 ( $I_{\theta}$ )	(24 V) 2 A
Minimum Switching Capacity	12 V 10 mA
Rated Impulse Withstand Voltage ( $U_{imp}$ )	Measuring Circuit / Output Circuit 4 kV Output Circuit 1 / Output Circuit 2 4 kV Supply Circuit / Measuring Circuit 4 kV Supply Circuit / Output Circuit 4 kV
Rated Insulation Voltage ( $U_i$ )	Measuring Circuit / Output Circuit 300 V Output Circuit 1 / Output Circuit 2 300 V Supply Circuit / Measuring Circuit 300 V Supply Circuit / Output Circuit 300 V
Degree of Protection	Housing IP50 Terminals IP20
Overvoltage Category	III
Pollution Degree	3
Short-Circuit Protective Devices	Output Circuit NC - F Type Fuses 6 A Output Circuit NO - F Type Fuses 10 A
Electrical Durability	AC-12 100000 cycle
Mechanical Durability	1000000 cycle
Connecting Capacity	Flexible with Ferrule 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible with Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm <sup>2</sup> Flexible 1x 0.5 ... 2.5 mm <sup>2</sup> Flexible 2x 0.5 ... 1.5 mm <sup>2</sup> Rigid 1x 0.5 ... 4 mm <sup>2</sup> Rigid 2x 0.5 ... 2.5 mm <sup>2</sup>
Tightening Torque	0.6 ... 0.8 N·m Control Circuit 0.9 N·m Main Circuit 1 N·m

Wire Stripping Length	8 mm Main Circuit 10 mm
Recommended Screw Driver	0.8 x 4 4.5 Pozi driv 1
Mounting Position	1 ... 5 1 ... 6
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Standards	CAN/CSA C22.2 No.14 IEC/EN 63000 IEC/EN 60255-27 IEC/EN 61000-6-2 IEC/EN 61000-6-3 UL 508

## Technical UL/CSA

Maximum Operating Voltage UL/CSA	Output Circuit 300 V AC
Contact Rating UL/CSA	B300
Connecting Capacity UL/CSA	Flexible 1x 18-14 AWG Flexible 2x 18-16 AWG Rigid 1x 20-12 AWG Rigid 2x 20-14 AWG
Tightening Torque UL/CSA	7.08 in-lb
Pilot Duty UL/CSA	B300

## Environmental

Ambient Air Temperature	Operation -25 ... +60 °C Storage -40 ... +85 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m
RoHS Status	Following EU Directive 2011/65/EU

## Circular Value

End of Life Instructions	1SAC200290H0001
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## Certificates and Declarations

CQC Certificate	CQC2015010303819793
cULus Certificate	cULus508_20150627-E140448
Declaration of Conformity - CCC	2020980303000198
Declaration of Conformity - CE	1SVD981005-00
Declaration of Conformity - UKCA	1SVD981005-10
DNV GL Certificate	DNV_GL_TAA00000R/W
EAC Certificate	EAC_RU_C-DE.ME77.B.02330

## Container Information

Package Level 1 Units	box 1 piece
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Package Level 1 Width	97 mm
Package Level 1 Depth / Length	30 mm
Package Level 1 Height	109 mm
Package Level 1 Gross Weight	0.15 kg
Package Level 1 EAN	4013614502927

## Classifications

Object Classification Code	B
ETIM 7	EC001447 - (Fill) level monitoring relay
ETIM 8	EC001447 - (Fill) level monitoring relay
ETIM 9	EC001447 - (Fill) level monitoring relay
eClass	V11.0 : 27371813
UNSPSC	39122331
E-Number (Finland)	2712567

## Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Liquid Level Monitors and Controls → CM-Enx

