

PRODUCT-DETAILS

CM-ENS.31S

CM-ENS.31S Liquid level monitoring relay 2c/o, sensitivity 0.1-1000kOhm



General Information

Extended Product Type	CM-ENS.31S
Product ID	1SVR730850R0300
EAN	4013614502910
Catalog Description	CM-ENS.31S Liquid level monitoring relay 2c/o, sensitivity 0.1-1000kOhm
Long Description	The CM-ENS.31S 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 2 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. Furthermore, an ON-delay or an OFF-delay can be adjusted within a range of 0.1 to 10 s. 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.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC112230D0201
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Dimensions

Product Net Width	22.5 mm
Product Net Height	85.6 mm
Product Net Depth / Length	103.7 mm
Product Net Weight	0.143 kg

Technical

Function	Filling or draining monitoring
Measuring Range	0,1 ... 1000 kΩ
Number of Electrodes	3
Rated Control Supply Voltage (U_s)	24 ... 240 V AC/DC
Output	2 c/o (SPDT) contacts
Time Range	0 s or 0.1 ... 30 s tripping delay (ON or OFF)
Terminal Type	Screw Terminals
Rated Operational Current AC-12 (I_{θ})	(230 V) 4 A
Rated Operational Current AC-15 (I_{θ})	(230 V) 3 A
Rated Operational Current DC-12 (I_{θ})	(24 V) 4 A
Rated Operational Current DC-13 (I_{θ})	(24 V) 2 A
Minimum Switching Capacity	12 V 10 mA
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
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
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 ² Flexible with Ferrule 2x 0.5 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.5 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.5 ... 1.5 mm ² Flexible 1x 0.5 ... 2.5 mm ² Flexible 2x 0.5 ... 1.5 mm ² Rigid 1x 0.5 ... 4 mm ² Rigid 2x 0.5 ... 2.5 mm ²

Tightening Torque	0.6 ... 0.8 N·m
Wire Stripping Length	8 mm
Mounting Position	Any
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 EN 50581 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

Environmental

Ambient Air Temperature	Operation -25 ... +60 °C Storage -40 ... +85 °C
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

CCC Certificate	CCC_2015010303819793
CQC Certificate	CQC2015010303819793
cULus Certificate	cULus508_20150627-E140448
Declaration of Conformity - CCC	2020980303000198
Declaration of Conformity - CE	1SVD981005
DNV GL Certificate	DNV_GL_TAA00000RW
EAC Certificate	EAC_RU_C-DE.ME77.B.02330
Instructions and Manuals	1SVC730680M0000
RMRS Certificate	RMRS_1740020250
RoHS Information	1SVD981005

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	97 mm
Package Level 1 Height	109 mm
Package Level 1 Depth / Length	30 mm

Package Level 1 Gross Weight	0.168 kg
Package Level 1 EAN	4013614502910

Classifications

Object Classification Code	B
ETIM 5	EC001447 - (Fill) level monitoring relay
ETIM 6	EC001447 - (Fill) level monitoring relay
ETIM 7	EC001447 - (Fill) level monitoring relay
eClass	V11.0 : 27371813
E-Number (Finland)	2712568

Categories

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

