

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

General Information

Extended Product Type:	CM-ENS.13S
Product ID:	1SVR730850R2100
EAN:	4013614502903
Catalog Description:	CM-ENS.13S Liquid level monitoring relay 1c/o, sensitivity 5-100kOhm
Long Description:	The CM-ENS.13S belongs to the CM liquid level monitoring relay range. It operates with a rated control supply voltage of 110-130 V AC and 220-240 V AC 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 and works according to the open-circuit principle. 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.

Additional Information

Ambient Air Temperature:	Operation -25 ... +60 °C Storage -40 ... +85 °C
CCC Certificate:	CCC_2015010303819793
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
Connecting Capacity UL/CSA:	Flexible 1x 18-14 AWG Flexible 2x 18-16 AWG Rigid 1x 20-12 AWG Rigid 2x 20-14 AWG
Contact Rating UL/CSA:	B300
Country of Origin:	Germany (DE)
Customs Tariff Number:	85364900
DNV GL Certificate:	DNV_GL_TAA00000RW
Data Sheet, Technical Information:	2CDC112228D0201
Declaration of Conformity - CE:	1SVD981005-0001
Degree of Protection:	Housing IP50 Terminals IP20
EAC Certificate:	EAC_RU_C-DE.ME77.B.02330
EAN:	4013614502903
EPLAN Catalog Tree:	Electrical engineering / Relays, contactors / General
ETIM 5:	EC001447 - (Fill) level monitoring relay
ETIM 6:	EC001447 - (Fill) level monitoring relay
Electrical Durability:	AC-12 100000 cycle
Function:	Filling or draining monitoring
IIT Publishing Status:	Level 0 - Information enabled
Instructions and Manuals:	1SVC730680M0000
Invoice Description:	CM-ENS.13S Liquid level monitoring relay 1c/o, sensitivity 5-100kOhm
Maximum Operating Voltage UL/CSA:	Output Circuit 300 V AC
Measuring Range:	5 ... 100 kΩ

Mechanical Durability:	1000000 cycle
Minimum Order Quantity:	1 piece
Minimum Switching Capacity:	12 V 10 mA
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
Number of Electrodes:	3
Object Classification Code:	B
Output:	1 c/o (SPDT) contact
Overvoltage Category:	III
Package Level 1 EAN:	4013614502903
Package Level 1 Gross Weight:	0.177 kg
Package Level 1 Height:	109 mm
Package Level 1 Length:	30 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	97 mm
Pollution Degree:	3
Power Loss:	Approximately 2 W
Product Main Type:	CM-ENS
Product Name:	Liquid Level Monitoring Relay
Product Net Depth:	103.7 mm
Product Net Height:	85.6 mm
Product Net Weight:	0.153 kg
Product Net Width:	22.5 mm
RMRS Certificate:	RMRS_1740020250
Rated Control Supply Voltage (U_s):	110 ... 130 V AC 220 ... 240 V AC
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
Rated Operational Current AC-12 (I_e):	(230 V) 4 A
Rated Operational Current AC-15 (I_e):	(230 V) 3 A
Rated Operational Current DC-12 (I_e):	(24 V) 4 A
Rated Operational Current DC-13 (I_e):	(24 V) 2 A
Regulatory Compliance Mark (RCM):	Yes
RoHS Date:	1146
RoHS Information:	1SVD981005-0001
RoHS Status:	Following EU Directive 2011/65/EU
Selling Unit of Measure:	piece
Short-Circuit Protective Devices:	Output Circuit NC - F Type Fuses 6 A Output Circuit NO - F Type Fuses 10 A
Standards:	EN 50581 IEC/EN 60255-27 IEC/EN 61000-6-2 IEC/EN 61000-6-3 UL 508

Terminal Type:	Screw Terminals
Tightening Torque:	0.6 ... 0.8 N·m
Tightening Torque UL/CSA:	7.08 in·lb
Wire Stripping Length:	8 mm
cULus Certificate:	cULus508_20150627-E140448
eClass:	7.0 27371813

