

PRODUCT-DETAILS

CM-ENS.23S

CM-ENS.23S Liquid level monitoring relay 1c/o, sensitivity 0.1-1000kOhm



General Information

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|-----------------------|---|
| Extended Product Type | CM-ENS.23S |
| Product ID | 1SVR730850R2200 |
| EAN | 4013614502897 |
| Catalog Description | CM-ENS.23S Liquid level monitoring relay 1c/o, sensitivity 0.1-1000kOhm |
| Long Description | <p>The CM-ENS.23S 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. 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

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|------------------------|---------------|
| EAN | 4013614502897 |
| 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

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| Product Net Width | 22.5 mm |
| Product Net Height | 85.6 mm |
| Product Net Depth / Length | 103.7 mm |
| Product Net Weight | 0.154 kg |

Technical

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| Function | Filling or draining monitoring |
| Number of Electrodes | 3 |
| Measuring Range | 0 1 ... 1000 kΩ |
| Rated Control Supply Voltage (U_s) | 110 ... 130 V AC 220 ... 240 V AC |
| Rated Frequency (f) | Supply Circuit 50/60 Hz |
| Output | 1 c/o (SPDT) contact |
| 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 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 |

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|----------------------------------|--|
| 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 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 Pozidriv 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

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|----------------------------------|--|
| 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

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| Ambient Air Temperature | Operation -25 ... +60 °C Storage -40 ... +85 °C |
| Maximum Operating Altitude Permissible | Without Derating 2000 m |

Material Compliance

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|-------------------|-----------------|
| Conflict Minerals | 9AKK108467A5658 |
|-------------------|-----------------|

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|---------------------------|-----------------------------------|
| Reporting Template (CMRT) | |
| REACH Declaration | No declaration needed |
| RoHS Information | 1SVD981001-4401 |
| RoHS Status | Following EU Directive 2011/65/EU |

Circular Value

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|--------------------------|-----------------|
| End of Life Instructions | 1SAC200290H0001 |
|--------------------------|-----------------|

Certificates and Declarations

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|----------------------------------|---------------------------|
| 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_TAA00000RW |
| EAC Certificate | EAC_RU_C-DE.ME77.B.02330 |

Container Information

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|--------------------------------|---------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 97 mm |
| Package Level 1 Depth / Length | 30 mm |
| Package Level 1 Height | 109 mm |
| Package Level 1 Gross Weight | 0.179 kg |
| Package Level 1 EAN | 4013614502897 |

Classifications

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| 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) | 2712570 |

Categories

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

