## Float switch

## Series Miniature-Float switch

## Description MSN2-MS-R1,0-2S 0108

## Wiring diagram

(non-actuated state)


## Performance diagram




Characteristic features in accordance with EN 60947-5-1

| Electrical data |  |
| :--- | :--- |
| max. switching voltage | 250 V |
| max. switching current | $0,5 \mathrm{~A}$ |
| max. switching capacity | 10 VA |
| mechanical life | $10^{7}$ to $10^{9}$ switches depending on the load |
| Switching element | $1 \mathrm{~N} . \mathrm{O} .$, rising level |
| Protection class | 1 N.O., falling level |


| Mechanical data |  |
| :---: | :---: |
| Bolting material | CuZn39Pb3 (CW614N) |
| Switching tube material | CuZn37 (CW508L) |
| Float material <br> - density <br> - depth of immersion | X6CrNiMoTi17-12-2 (1.4571) <br> about $0,6 \mathrm{~g} / \mathrm{cm}^{3} \pm 10 \%$ <br> $18 \mathrm{~mm} \pm 2 \mathrm{~mm}$ ( to a fluid-density of $1 \mathrm{~g} / \mathrm{cm}^{3}$ ) |
| Grip screw material | CuSn8 (CW453K) |
| Ambient air temperature | $-10^{\circ} \mathrm{C}$ to $+105^{\circ} \mathrm{C}$ |
| Liquid temperature | $-10^{\circ} \mathrm{C}$ to $+110^{\circ} \mathrm{C}$ |
| Connection | Cable $3 \times 0,5 \mathrm{~mm}^{2} \times 30 \mathrm{~m} \pm 5 \%$, silicone with pin cable shoe 12 mm (partly insulated) |
| Protection type | IP 65 acc to IEC529 / EN 60529 |
| Max. pressure | 5 bar |


| EU Conformity | acc. to directive 2006/95/EC |
| :--- | :--- |

> | General details |
| :--- |
| Repeatability of switching points is $\pm 0,05 \mathrm{~mm}$ based on the same geometrical conditions as of a switch device. |
| The measures of the switching points refer to a fluid-density of $1 \mathrm{~g} / \mathrm{cm}^{3}$. |
| The tolerance of the switching points is $\pm 2 \mathrm{~mm}$ |
| It is from customer side to provide a contact protection, because the connection cable behaves as a capacitive load in |
| the required length! |

Pay attention to the contact protection, when switching inductive or capacitive loads. Maximum data must not be exceeded!


