

## level measurement

### magnetic float switch SMS 330

#### features

- level switch with connection head according to the float principle with magnetic transmission
- different process connection threads
- robust design
- rod length is free to choose after consultation of the mechanical possibilities
- 1 or 2 switching points selectable
- simple evaluation by reed contact
- optionally with temperature switch

photo follows

#### technical data

- |   |  |
|---|--|
| - material connection head              | depending on version, see order code                           |
| - material rod                          | stainless steel 1.4404 (316L) and 1.4401 (316)                 |
| - material float ball                   | depending on version, see order code                           |
| - flat limit                            | adjusting ring, stainless steel 1.4404 (316L) and 1.4401 (316) |
| - max. operating pressure               | depending on version, see order code                           |
| - protection class                      | depending on version, see order code                           |
| - temperature range                     | depending on version, see order code                           |
| - distance switching point bottom       | min. 50mm from below   |
| - distance between 2 switching points   | min. 50mm (for 2 switching points)                             |
| - version with 2 switching points       | 2 float balls  |
| - accuracy switching point              | +/- 3mm  |
| - switching capacity float contact:     | <u>standard version</u>  |
|   | max. AC/DC 175V; 10VA/10W; 0,5A                                |
|   | <u>high temperature version</u>                                |
|   | (with float ball SZE30 and SKE75 possible)                     |
|   | max. AC/DC 30V; 3VA/3W; 0,2A                                   |
| - temperature switch mounting location  | protection tube below  |
| - switching capacity temperature switch | max AC 250V, 2A resp. 24VDC, 3A                                |
| - temperature range temperature switch  | +45°C...+160°C in 5°C steps                                    |
| - electrical connection                 | connection head with screw connector or with M12 plug          |

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#### typical areas of application

- level detection in containers
- dry run protection
- empty / full message
- simple, robust point level detection

#### technical drawing (example)

technical drawing  
follows

## level measurement

magnetic float switch SMS 330

order code SMS 330...

### electrical connection, connection head

- 1 aluminium connection head standard, with screw connection, protection class IP65
- 2 aluminium connection head with flip lid, with screw connection, protection class IP65
- 3 aluminium connection head with flip lid and quick release fastener, with screw connection, protection class IP54
- 4 aluminium connection head with high flip lid, with screw connection, protection class IP65
- 5 stainless steel head standard with screw connection, protection class IP69K
- 6 stainless steel head standard with M12-plug, protection class IP69K

### process connection

- FG1 fixed thread G1"
- FG1/2 fixed thread G1/2"
- XX other on request

### sensor length

- XXX sensor length (XXX=length in mm), minimum length 100mm, 5mm steps

### switching point 1

- XXX switching point (XXX=distance from bottom in mm), minimum distance from bottom 50mm, 5mm steps

### electrical version switching point 1

- NC version opener
- NO version closer
- W version changer (not possible with 2 switching points)
- NOT version closer (high temperature version up to 180°C, only with float ball SZE30 or SKE75)

### switching point 2 (optional) minimum distance to switching point 1: 50mm

- XXX switching point (XXX=distance from bottom in mm), 5mm steps

### electrical version switching points 2 (only if switching point 2 is selected)

- NC version opener
- NO version closer
- W version changer (not possible with 2 switching points)
- NOT version closer (high temperature version up to 180°C, only with float ball SZE30 or SKE75)

### version float ball

- SZE30 float ball cylindrical design material stainless steel 1.4404, diameter 30mm  
temperature range: -10°C...+180°C, max pressure: 2 bar, for sealing 0,8g/cm<sup>3</sup>
- SKE75 float ball spherical design material stainless steel 1.4401, diameter 75mm  
temperature range: -10°C...+180°C, max pressure: 2 bar, for sealing 0,7g/cm<sup>3</sup>
- SZPP16 float ball cylindrical design material PP, diameter 16,5mm  
temperature range: -10°C...+80°C, max pressure: 1 bar, for sealing 0,85g/cm<sup>3</sup>

### temperature switch (optional) only switching point 1, NC or NO

- TXX switching point temperature (XX specification in °C) temperature range +45°C...+160°C in 5°C steps

### option electrical linking of switching point and temperature switch (optional, only with switching point 1, NC o. NO)

- RT temperature switch connected in series with switching point 1
- GT temperature switch designed separately
- CT temperature switch and switching point with common reference contact
- RS 2 switching points connected in series