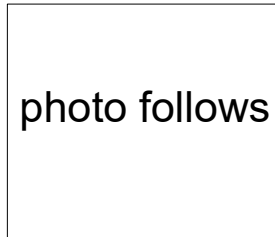


## level measurement

### magnetic float switch SMS 320

#### features

- level switch with connection head on 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



#### technical data

- material connection head
  - material rod
  - material float ball
  - float limit
  - max. operating pressure
  - protection class
  - temperature range
  - distance switching point bottom
  - distance between 2 switching points
  - version with 2 switching points
  - accuracy switching point
  - switching capacity float contact:
- 
- temperature switch mounting location
  - switching capacity temperature switch
  - temperature range temperature switch
  - electrical connection

depending on version, see order code  
stainless steel 1.4404 (316L) and 1.4401 (316)

depending on version, see order code  
adjusting ring, stainless steel 1.4404 (316L) and 1.4401 (316)

depending on version, see order code  
depending on version, see order code  
min. 50mm from below  
min. 50mm (for 2 switching points)  
2 float balls  
+/- 3mm

standard version  
max. AC/DC 175V; 10VA/10W; 0,5A

high temperature version  
(with float balls SZE30 and SKE75 possible)  
max. AC/DC 30V; 3VA/3W; 0,2A

protection tube below  
max AC 250V, 2A resp. 24VDC, 3A  
+45°C...+160°C in 5°C steps

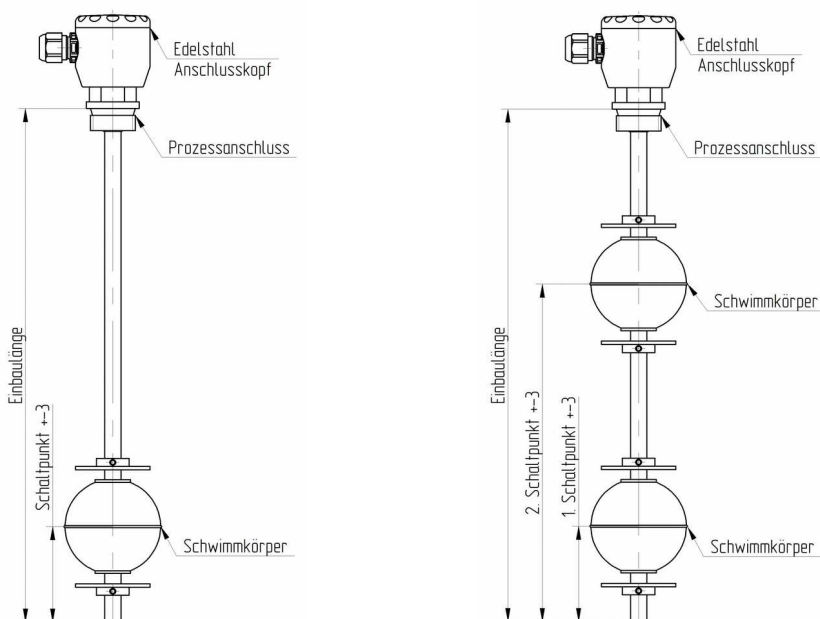
connection head with screw connection or with M12 plug

SMS 320-...

#### typical areas of application

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

#### technical drawing (example)



## level measurement

magnetic float switch SMS 320

order code SMS 320...

### 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 threads 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<br>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<br>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<br>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                               |