

## level measurement

### magnetic float switch SMS 420

#### features

- level switch on the float principle with plug connection with magnetic transmission, different plugs possible
- different process connection threads
- robust design
- rod length is free to choose after consultation of the mechanical possibilities
- 1 or 2 switching points can be freely selected when ordering
- simple evaluation by reed contact
- optionally with temperature switch



SMS 420-...

#### technical data

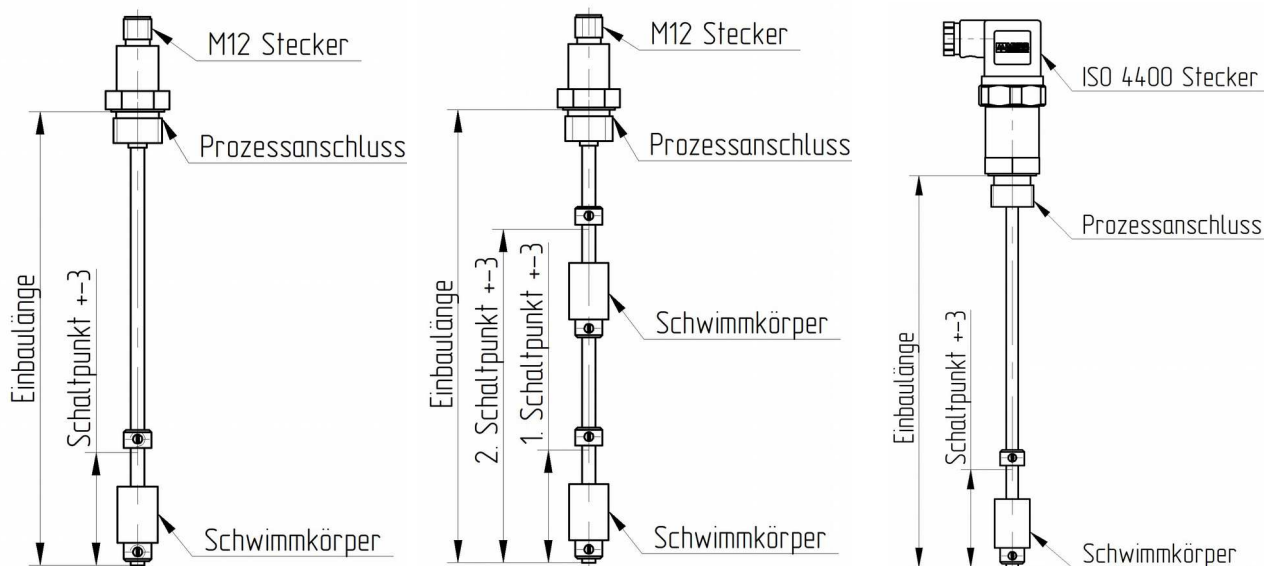
- material connection cable
- material rod
- material float ball
- float limit
- max. operating pressure
- protection class
- temperature range
- distance switching point bottom
- distance between 2 switching points
- version with 2 switching points
- accuracy switching point
- switching capacity float 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 M12 plug IP68, ISO4400 plug IP65  
 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 ball 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  
 plug connection, see order code

#### typical areas of application

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

#### technical drawing (example)



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#### order code SMS 420...

#### electrical connection

-9 M12 plug, protection class IP68  
-10 ISO4400 plug, protection class IP65

#### 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 point2 (optional) minimum distance to switching point 1: 50mm

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

#### electrical version switching point 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

#### connection temperature switch (optional, only with switching point 1, NC or 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