



OEM Float Switch SMV-2

Miniature design, vertical installation



- From customization to design-in solution
- Low variance by local adjustment of the normally open/ normally closed switching function via rotation of the float
- Various materials and up to 109 switching cycles guarantee a long service life

D-EN-SMV-2-20200211



OEM Float Switch SMV-2

Miniature design, vertical installation

Applications

- Limit level measurement in machine building
- Dry run monitoring in mobile working machines
- Monitoring of hydraulic power packs and chillers
- Overfill measurement in water technology
- Specifically developed for OEM customers (minimum lot size: 50 pieces)

Special features

- From customization to design-in solution
- Low variance by local adjustment of the normally open/normally closed switching function via rotation of the float
- Various materials and up to 109 switching cycles guarantee a long service life

Description

The model SMV-2 is a small and economical float switch with a single switch point, designed specifically for the needs of OEM customers. With its compact dimensions, it is particularly suitable for monitoring dry running or the overfilling of small tanks. The miniature float switch from plastic combines solid performance with high mechanical robustness and an attractive price.

Tailored to your machines

To ensure that the model SMV-2 float switch is perfectly matched to the application on site, we offer design-in solutions. Whether customer-specific tank connection, individualized electrical connections or designs: We adapt the model SMV-2 for original equipment manufacturers to their respective requirements. This minimizes the effort and cost of installation and maintenance, with maximum safety and compatibility.

Change of function through 180° rotation

The reduction of variance and thus logistical effort is central in OEM production. For this reason, the model SMV-2 miniature float switch, by rotating it through 180°, can be alternated from a normally open into a normally closed contact. Thus there is no need to keep a second float switch in stock.

Maximum reliability at a minimum cost

The model SMV-2 is available in a variety of chemically resistant and robust plastics with very low water absorption. In addition, high-quality reed contacts guarantee up to one billion switching cycles, depending on the application. The use of the float switch is highly efficient in a multitude of applications thanks to its long-term, reliable performance and low "total cost of ownership".



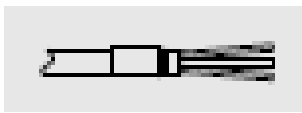
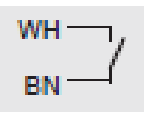
OEM Float Switch SMV-2

Miniature design, vertical installation

Technical data		
Measurement principle	Potential-free switching reed contact is triggered by a magnet in the float.	
Output signal	1 switch point	
Switching function	Normally open (NO) - on rising level Can be used as normally closed (NC) contact by a 180° rotation of the float	
Switching power	AC 230 V; 100 VA; 1 A; max. 100 Hz DC 230 V; 50 W; 0,5 A	
Accuracy	≤ 3 mm switch point accuracy incl. hysteresis, non-repeatability	
Mounting position	±30°	
Material <ul style="list-style-type: none">wettedNon-wetted	Polypropylene (PP) Option: Polyamide PA6.6, Polyamide PA12 (on request) PVC	
Permissible temperatures <ul style="list-style-type: none">mediumambientstorage	Polypropylene (PP): -25 ... +80 °C [-13 ... +176 °F] -25 ... +80 °C [-13 ... +176 °F] -25 ... +80 °C [-13 ... +158 °F]	Polyamide PA6.6: -25 ... +100 °C [-13 ... +212 °F] -25 ... +100 °C [-13 ... +212 °F] -25 ... +80 °C [-13 ... +158 °F]
Operating pressure	≤ 4 bar [≤ 58,0 psi]	
Density	Polypropylene (PP): ≥ 700 kg/m³ [43,7 lbs/ft³]	Polyamide PA6.6: ≥ 750 kg/m³ [46,8 lbs/ft³]

Electrical connections	Ingress protection per IEC/EN 60529	Protection class	Material	Cable length
Cable outlet	IP 67	II	PVC	1 m [3,3 ft]

Other lengths and materials as well as M8 x 1 connector on request

Connection diagram		
Cable outlet		
		Legend WH white BN brown

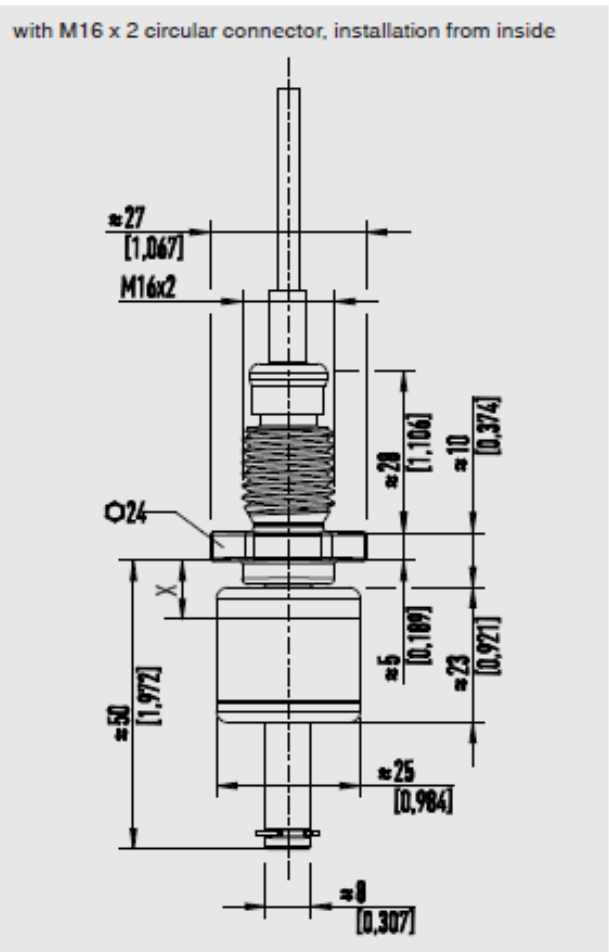
D-EN-SMV-2-20200211



OEM Float Switch SMV-2

Miniature design, vertical installation

Dimensions



Switch points		
Switching function	Medium	Switch point X
Normally open ¹⁾	Water	approx. 17 mm
	Oil	approx. 12 mm
Normally closed ¹⁾	Water	approx. 28 mm
	Oil	approx. 23 mm
1) Normally closed/normally open switching function depends on the mounting direction of the mounted float		

Approvals

Logo	Description	Country
	EU declaration of conformity <ul style="list-style-type: none">Low voltage directiveRoHS directive	European Union
	China RoHS directive	China

D-EN-SMV-2-20200211



OEM Float Switch SMV-2

Miniature design, vertical installation

Type	Order numbers
Float switch from polypropylene (PP) 1 m cable from PVC	14319870
Float switch from polyamide PA6.6 1 m cable from PVC	14319872

Lot size: 50 pieces

To order the described product the order number is sufficient.

Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.