Float switch SV-6

Stainless steel bilge switch with protective housing and cable outlet

- Approval: Germanischer Lloyd
- Robust stainless steel case to protect against mechanical damage
- Durable and resistant marine cable
- With manual test device (optional)

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Description

The model SV 6 bilge float switch is used for the monitoring of limit levels in shipbuilding (e.g. in bilge water tanks) and industrial applications. The robust stainless steel case and the durable marine cable outlet protect the float system even under high mechanical loading, e.g. due to flotsam such as sticks and pieces of wood. Inside the stainless steel case, a permanent magnet built into the float triggers, with its magnetic field, the potential-free reed contact built into the pipe.

The triggering of the reed contact by the permanent magnet is contact-free and thus free from wear. The reed switch function is freely definable as normally closed, normally open or change-over contact. In the event of maintenance, the optionally available test device enables the manual triggering of the float by a movable wire bracket.

With its optimized mechanical design and certification in accordance with the leading maritime standards, the SV 6 is particularly suitable for long-term and reliable use in shipbuilding applications.

Application

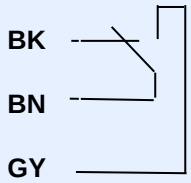
Our bilge switches have been developed for general use under heavy mechanical loads and in heavily polluted liquids on ships and for industry, such as: for example

- Shipbuilding
- Bilge water management
- Applications with strong mechanical loading
- Contaminated media

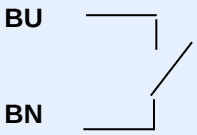
Connection diagram

Cable outlet

Change over contact



Normally open / normally closed



Legend

BU Blue
BN Brown
BK Black
GY Grey

Electrical safety	
Insulation voltage	DC 2,120 V

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Technical data		
Measuring principle	Potential-free switching reed contact is triggered by a magnet in the float.	
Switching output	Alternatively normally open (NO), normally closed (NC) or change-over (SPDT) contact - on rising level	
Switch position	see “Dimensions in mm (in)”	
Switching power	Normally open, normally closed:	AC 230 V; 100 VA; 1 A DC 230 V; 50 W; 0.5 A
	Change-over contact:	AC 230 V; 40 VA; 1 A DC 230 V; 20 W; 0.5 A
Test device	For manual triggering of the float/switch contact (optional)	
Accuracy	±3 mm switch point accuracy incl. hysteresis, non-repeatability	
Electrical connection	Cable outlet, IP68 (8 m / 26,2 ft) Cable length freely definable in in m/ft	
Protection class	II	
Mounting position	Vertical ±30°	
Process connection	Surface mounting lug with 2 drilled holes D = 7.0 mm (0,3 in) Hole centre spacing = 34 mm (1,3 in)	
Material • Case, pipe, surface mounting lug, float • Cable	• Stainless steel 316Ti • Marine cable, sheath material polyolefin	
Permissible temperatures • Medium • Ambient • Storage	-40 ... +80 °C (-40 ... +176 °F) -40 ... +80 °C (-40 ... +176 °F) -40 ... +80 °C (-40 ... +176 °F)	
Process pressure	max. 16 bar (232 psi)	
Medium density	≥ 750 kg/m³ (46,8 lbs/ft³)	

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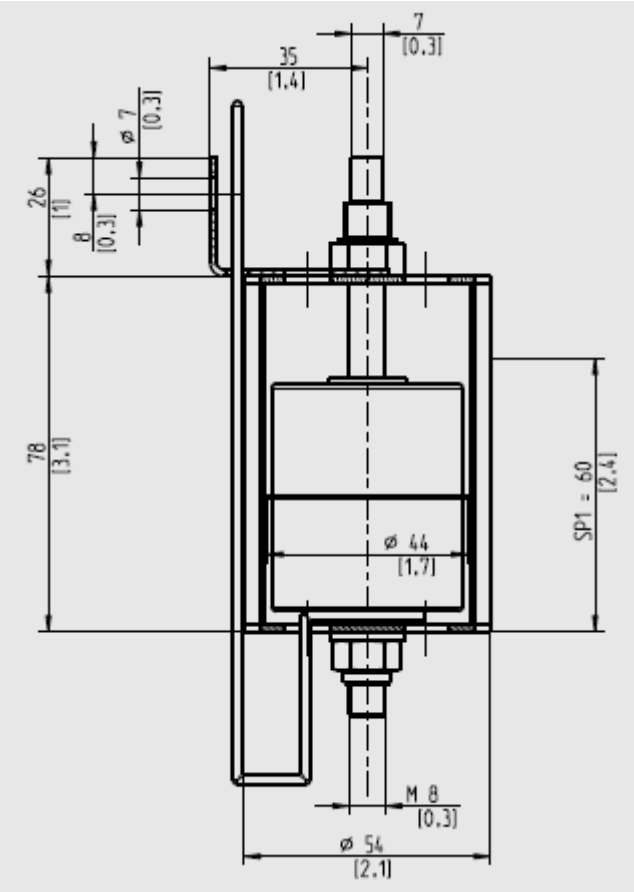

Approvals
EU declaration of conformity
- Low voltage directive
- RoHS directive

DNV GL
Ships, shipbuilding (e.g. offshore)

Lloyd‘s Register
Ships, shipbuilding (e.g. offshore)

China RoHS directive

Weight: approx. 700 g (1,5 lbs) + 350 g/m (0,8 lbs/m) cable length

Ordering information
Model / Switching function / Cable length / Test device (optional)

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.

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