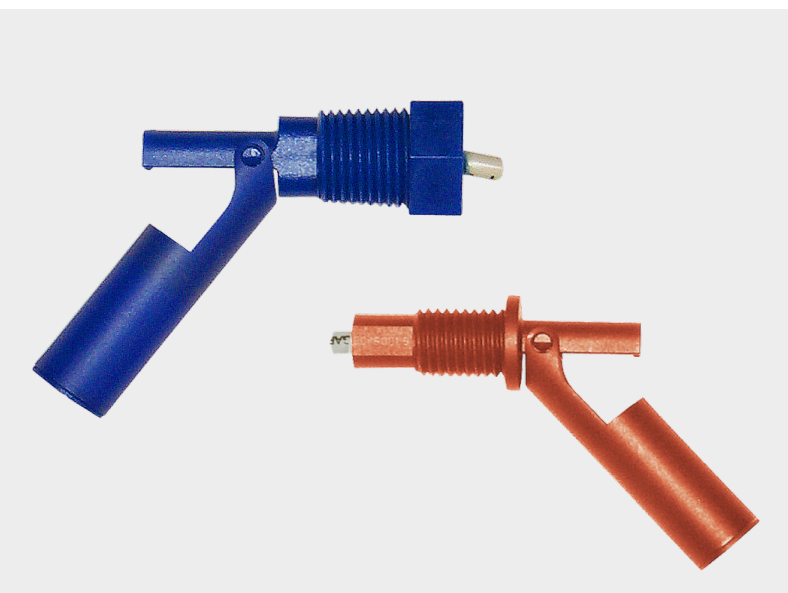


# UNS

Single-Point Level Switches

*see the difference.*

DATA-SHEETS  
INSIDE



*see the difference.*



# UNS

*see the difference.*

## Float-Based Level Detection for Point-Level Control

Barksdale single-point level switches provide reliable liquid level detection using proven float technology. Designed for all kinds of application, they enable precise ON/OFF control in tanks, reservoirs, and process systems across a wide range of pressures, temperatures, and media types.

This brochure also features dedicated solutions such as bilge guards for enhanced safety in marine environments.

### Key Features

- ▶ Wide range of mounting options (vertical, horizontal)
- ▶ Multiple material options (SS, plastics, etc.)
- ▶ High pressure & temperature capability
- ▶ Simple switching output (NO / NC / SPDT)
- ▶ Customizable switching point lengths
- ▶ Proven float technology – no calibration required
- ▶ Compact designs for tight installations

### Markets/Applications

- ▶ Tanks & reservoirs
- ▶ Hydraulic systems
- ▶ Compressors & pumps
- ▶ Marine systems (bilge, fuel, tanks)
- ▶ Water & wastewater



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# UNS-MS1/8-BN25

## Single-Level Brass Switch



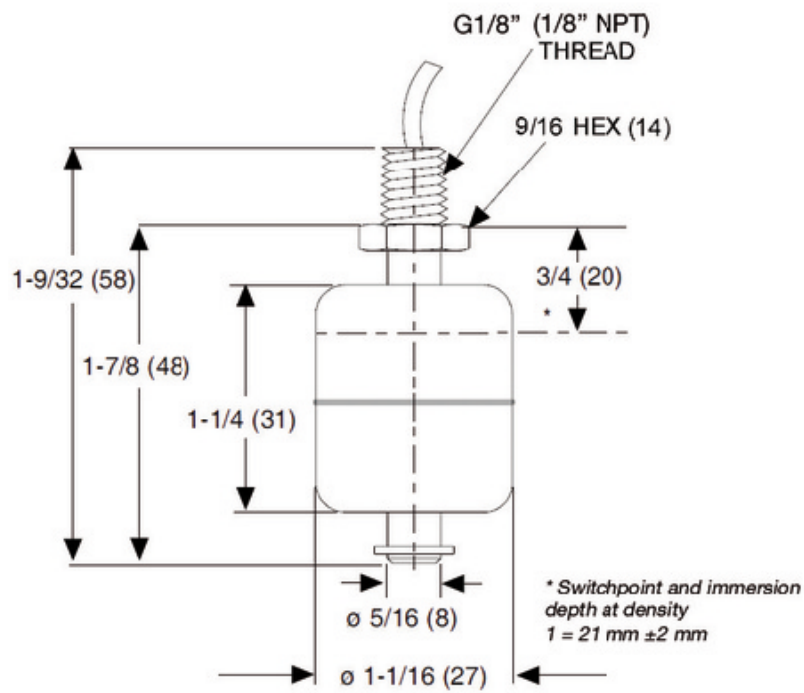
General Technical Specifications	
Material	Brass
Mounting Position	Vertical, $\pm 30^\circ$ , through top or bottom
Float Material	Buna-N
Float Diameter (in mm)	25
Operating Pressure Bar at 20 °C	15
Min. Fluid Specific Gravity in g/cm <sup>3</sup>	0.57
Protection Class	IP54

Order Number	Mounting Element	Cable Type	Cable Length*	Contact Mode and Rating		Operating Temperature	
						Oil	Water
0111-464	G 1/8	PVC-cable	1m	NO/NC	230 V AC / DC 2 A, 40 VA / W	-20 °C...+100 °C	-20 °C...+80 °C
0111-465			3m				
0111-466			5m				
0111-467			1m	SPDT	150 V AC / 100 V DC, 0.2 A, 3 VA / W		
0111-468			3m				
0111-469			5m				
0111-571	NPT 1/8	Max.3 x 0.34 mm <sup>2</sup>	1m	NO/NC	230 V AC / DC 2 A, 40 VA / W		
0111-572			3m				
0111-573			5m				
0111-574			1m	SPDT	150 V AC / 100 V DC, 0.2 A, 3 VA / W		
0111-575			3m				
0111-576			5m				

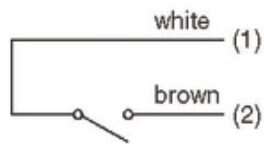
\*For longer lead length, consult factory.

# UNS-MS1/8-BN25

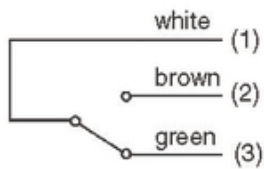
## Drawings



NO (NC)



SPDT



# UNS-VA 1/8-VA27

## Single-Level Stainless Steel Level Switch

General Technical Specifications	
Material	Stainless Steel
Mounting Position	Vertical, $\pm 30^\circ$ , through top or bottom
Float Material	Stainless Steel
Float Diameter (in mm)	27
Operating Pressure Bar at 20 °C	15
Min. Fluid Specific Gravity in g/cm <sup>3</sup>	0.71
Protection Class	IP54

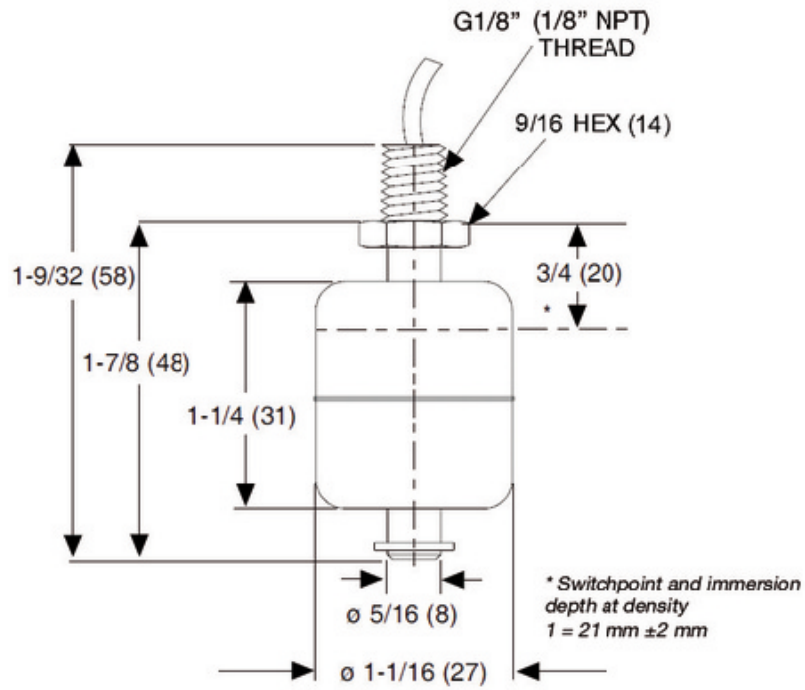


Order Number	Mounting Element	Cable Type	Cable Length*	Contact Mode and Rating		Operating Temperature
0111-449	G 1/8	PVC-cable Max.3 x 0.34 mm <sup>2</sup>	1m	NO/NC	230 V AC / DC 2 A, 40 VA / W	-10 °C...+105 °C
0111-450			3m			
0111-451			5m			
0111-452			1m	SPDT	150 V AC / 100 V DC, 0.2 A, 3 VA / W	
0111-453			3m			
0111-454			5m			
0111-455		Silicone Max.3 x 0.5 mm <sup>2</sup>	1m	NO/NC	230 V AC / DC 2 A, 40 VA / W	-40 °C...+150 °C
0111-456			3m			
0111-457			5m			
0111-458			1m	SPDT	150 V AC / 100 V DC, 0.2 A, 3 VA / W	
0111-459			3m			
0111-460			5m			
0111-577	NPT 1/8	PVC-cable Max.3 x 0.34 mm <sup>2</sup>	1m	NO/NC	230 V AC / DC 2 A, 40 VA / W	-10 °C...+105 °C
0111-578			3m			
0111-579			5m			
0111-580			1m	SPDT	150 V AC / 100 V DC, 0.2 A, 3 VA / W	
0111-581			3m			
0111-582			5m			

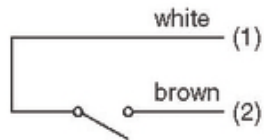
\*For longer lead length, consult factory.

# UNS-VA 1/8-VA27

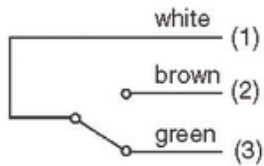
## Drawings



NO (NC)



SPDT



# UNS-VA1/4-VA52

## Single-Level Stainless Steel Level Switch

General Technical Specifications	
Material	Stainless Steel
Mounting Position	Vertical, $\pm 30^\circ$ , through top or bottom
Float Material	Stainless Steel
Float Diameter (in mm)	52
Operating Pressure Bar at 20 °C	40
Min. Fluid Specific Gravity in g/cm <sup>3</sup>	0.78
Protection Class	IP54

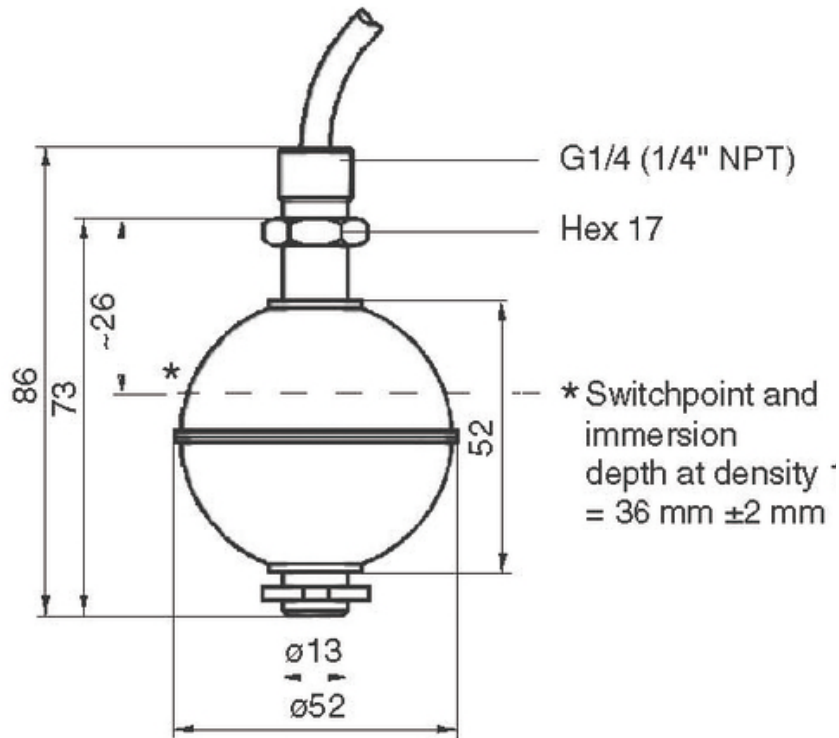


Order Number	Mounting Element	Cable Type	Cable Length*	Contact Mode and Rating		Operating Temperature		
0111-482	G 1/4	PVC-cable Max.3 x 0.34 mm <sup>2</sup>	1m	NO/NC	250 V AC / DC, 3.0 A, 100 VA / W	-10 °C...+105 °C		
0111-483			3m					
0111-484			5m					
0111-485			1m	SPDT			140 V AC / DC, 1.0 A, 60 VA / W	
0111-486			3m					
0111-487			5m					
0111-488		Silicone Max.3 x 0.5 mm <sup>2</sup>	1m	NO/NC	250 V AC / DC, 3.0 A, 100 VA / W			-40 °C...+150 °C
0111-489			3m					
0111-490			5m					
0111-491			1m	SPDT			140 V AC / DC, 1.0 A, 60 VA / W	
0111-492			3m					
0111-493			5m					
0111-589	NPT 1/4	PVC-cable Max.3 x 0.34 mm <sup>2</sup>	1m	NO/NC	250 V AC / DC, 3.0 A, 100 VA / W	-10 °C...+105 °C		
0111-590			3m					
0111-591			5m					
0111-592			1m	SPDT			140 V AC / DC, 1.0 A, 60 VA / W	
0111-593			3m					
0111-594			5m					

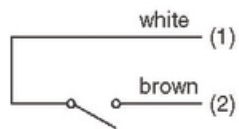
\*For longer lead length, consult factory.

# UNS-VA1/4-VA52

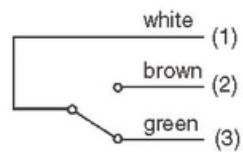
## Drawings



**NO (NC)**



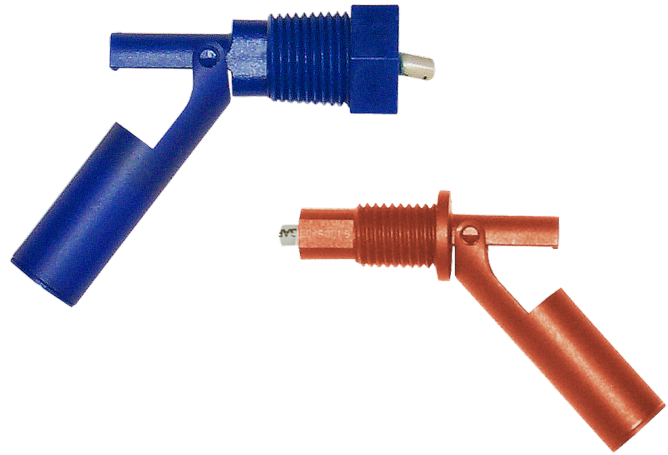
**SPDT**



## UNS-PA16-PA18 Single-Level Polyamid Level Switch

## UNS-PP16-PP18 Single-Level Polypropylene Level Switch

General Technical Specifications	
Mounting Position	Horizontal for Side Mounting
Cable Type*	PVC Max. 2 x 0.34 mm <sup>2</sup>
Cable Length	1m
Float Diameter (in mm)	18
Operating Pressure Bar at 20 °C	4
Protection Class	IP54



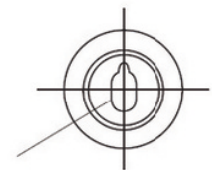
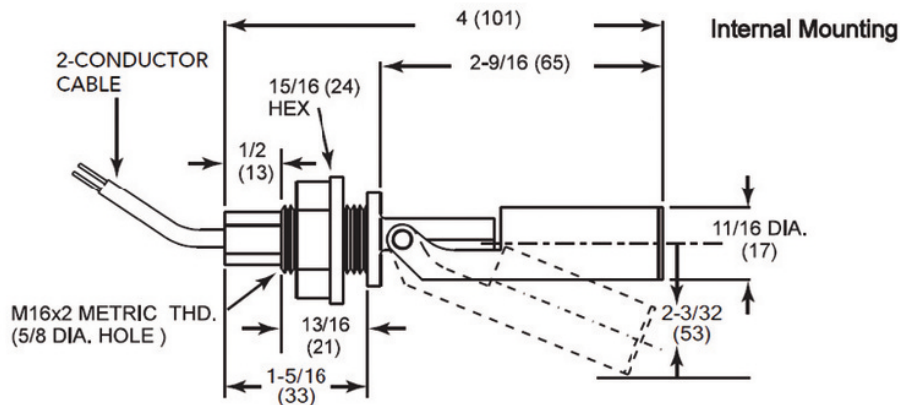
\*For longer lead length, consult factory.

	Order Number			
	0111-199	0111-203	0111-210	0111-327
Material	Blue Polyamide 6.6		Red Polypropylene	
Mounting Element	M 16 x 2.0 AG with Silicon gasket	1/2" NPT Thread	M 16 x 2.0 AG with Silicon gasket	1/2" NPT Thread
Float Material	Polyamide		Polypropylene	
Contact Mode and Rating	NO/NC			
	230 V AC/DC		3.0 A / 60 VA/W	
Operating Temperature Medium	-20 °C...+120 °C		-20 °C...+90 °C	
Operating Temperature Ambient	-20 °C...+60 °C			
Min. Fluid Specific Gravity (g/cm <sup>3</sup> )	0.70		0.65	

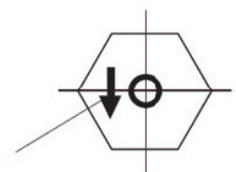
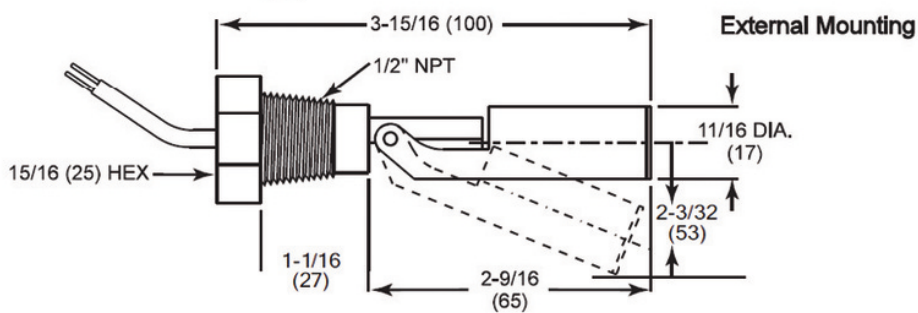
## UNS-PA16-PA18 Single-Level Polyamid Level Switch

## UNS-PP16-PP18 Single-Level Polypropylene Level Switch

### Drawings



Marking for NO / NC Identifying



Arrow for NO / NC Identifying



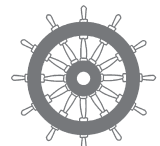
# Bilge Guard Switches

For Critical Safety in Marine Applications

## Applications

- ▶ Shipbuilding
- ▶ Yachtbuilding
- ▶ Sewage treatment plant

## Certifications and Approvals



## UNS-VA/SB-VA52

## UNS-VA/SB1-VA52

Heavy-Duty Bilge Level Switch with Stainless Steel Float with & without Test Function

General Technical Specifications	
Material	Stainless Steel
Mounting	Holding Bracket
Cable Type*	Marine Cable
Float Material	Stainless Steel
Float Diameter (in mm)	52
Operating Pressure Bar at 20 °C	10
Min. Fluid Specific Gravity in g/cm <sup>3</sup>	0.70
Protection Class	IP54



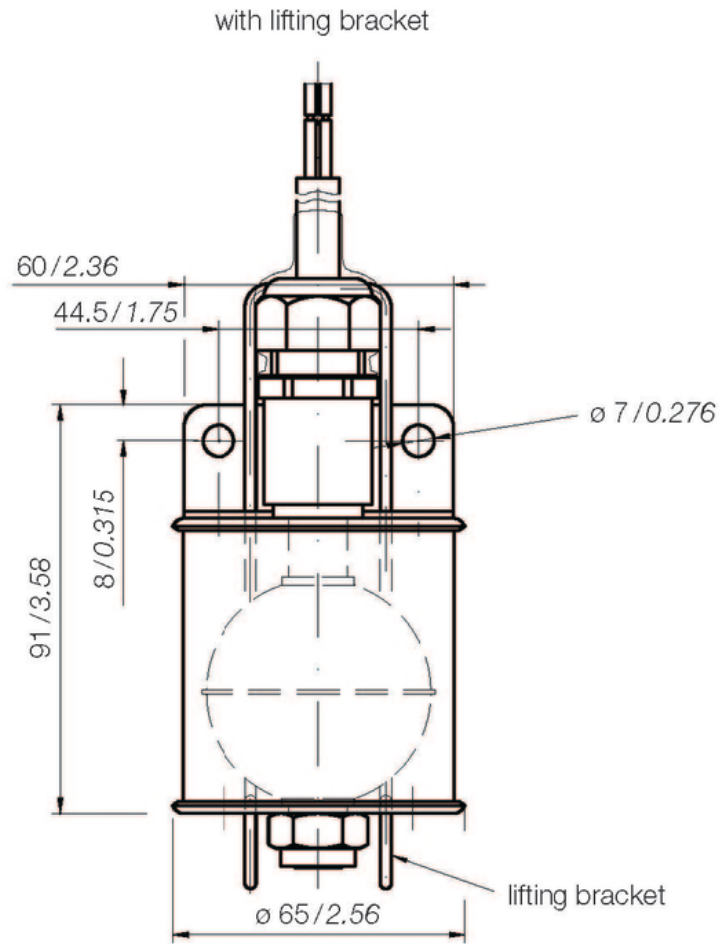
\*For longer lead length, consult factory.

Series	Order Number	Cable Length	Contact Mode and Rating		Operating Temperature	Certification
UNS-VA/SB-VA52	0111-626	2m	NO/NC	250 V AC / DC, 3.0 A, 100 VA / W	-20 °C...+85 °C	GL, BV, RMRS (RINA, ABS and LR on request)
	0111-627	5m				
	0111-628	10m				
	0111-558	2m	SPDT	140 V AC / DC, 1.0 A, 60 VA / W		
	0111-565	5m				
	0111-567	10m				
UNS-VA/SB1-VA52	0111-623	2m	NO/NC	250 V AC / DC, 3.0 A, 100 VA / W	-20 °C...+80 °C	DNV, BV, RINA
	0111-624	5m				
	0111-625	10m				
	0111-629	1m	SPDT	140 V AC / DC, 1.0 A, 60 VA / W		
	0111-630	3m				
	0111-631	5m				

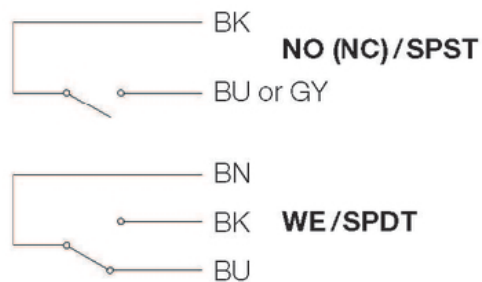
Note1: UNS-VA/SB-VA52 Manual Test Function: Integrated test function enables quick and reliable verification of switch and alarm operation without changing the liquid level to simulate high-level condition.

Note 2: Available with wire break detection. Consult Factory.

**UNS-VA/SB-VA52**  
**UNS-VA/SB1-VA52**  
 Drawing



**Color code  
 NO (NC)**

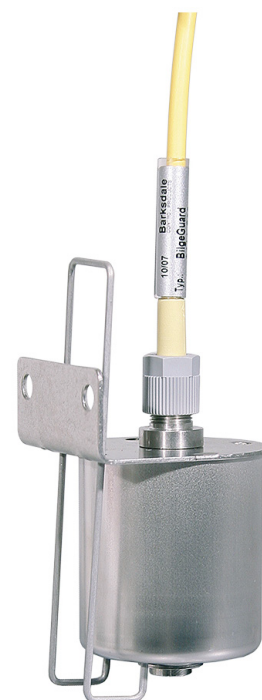


# UNS-VA/SB4

# UNS-VA/SB5 (with test function)

## Bilge Guard Level Switch with Polyethylene Float

General Technical Specifications	
Base Product	UNS Bilge Guard
Material	Stainless Steel Stem, Bracket, Float, Chamber
Mounting	Holding Bracket
Cable Type*	Halogen-free Polymer Cable, 2 x 0.75 mm <sup>2</sup>
Float Material	Polyethylene
Immersion depth at density 1 & 0.8	28 ±2 mm L1 ~18 mm 35 ±2 mm L1 ~11 mm
Float Diameter (in mm)	52
Operating Pressure Bar at 20 °C	3
Min. Fluid Specific Gravity in (g/ cm <sup>3</sup> )	0.80
Protection Class	IP67, IP68



\*For longer lead length, consult factory.

Order Number	Cable Length	Contact Mode and Rating	Operating Temperature	Certification
0111-509	2m	NO/NC Max. 230 V AC / DC Max. 2.0 A Max. 40 VA / W	-20 °C...+70 °C	DNV, BV, RINA, LR. For MED, consult factory.  IECEx TUB 17.0039X TÜV 18 ATEX 214370 X II 1 G Ex ia IIB T6 Ga or II 1/2 G Ex ia IIB T6 Ga/Gb or II 2 G Ex ia IIB T6 Gb or II 1 D Ex ia IIIC T100°C Da
0111-529	5m			
0111-660	10m			
0111-528	15m			
0111-510	2m			
0111-652	5m			
0111-531	10m			
0111-534	15m			
0111-669	2m			
0111-653	5m			
0111-698	10m			
0111-718	15m			
0111-537	2m			
0111-716	5m			
0111-765	10m			
0111-760	15m			

Note 1: UNS-VA/SB5 Manual Test Function: Integrated test function enables quick and reliable verification of switch and alarm operation without changing the liquid level to simulate high-level condition.

Note 2: Available with wire break detection. Consult Factory.

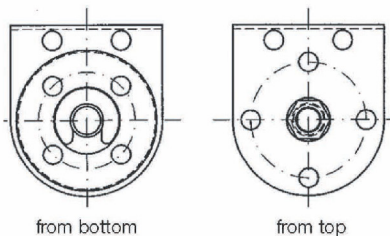
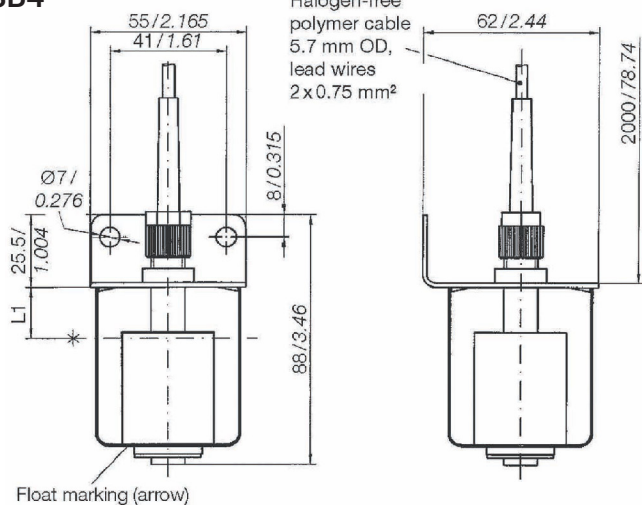
Note 3: By turning the float upside down the function of the switch contact can be changed from NO (standard) in NC or vice versa. (Not possible with SPDT contacts) The contact modes (NO or NC) are defined on the basis of an empty tank and for a level switch mounted through the top.

# UNS-VA/SB4

## UNS-VA/SB5 (with test function)

### Drawing

#### SB4

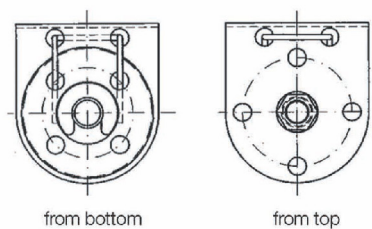
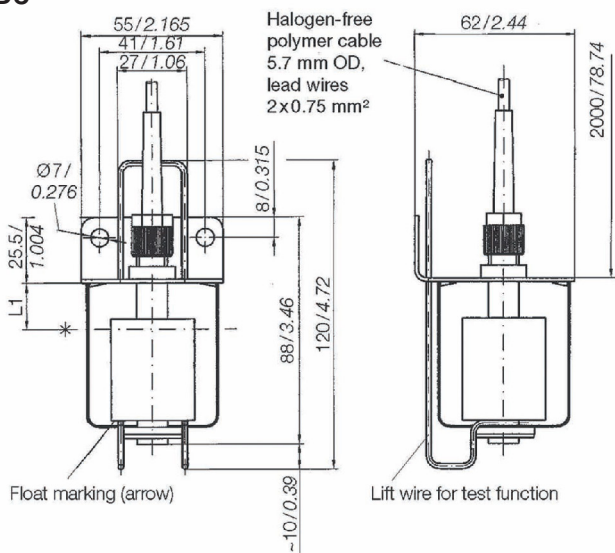


#### SB4

Color code  
NO (NC)



#### SB5



#### SB5

Color code  
NO (NC)



# Design with Us



## Leverage our Engineering Expertise

### Customized Products for Your Project

Barksdale offers more than 50 product families and millions of configured options to measure, monitor and control processes essential to the industrial, power and transportation markets. We can make basic modifications to these standard products and options to ensure they are exactly matched to the project requirements.

#### **Market-focused. Technology-driven. Customer-intimate.**

These elements at the heart of the company philosophy have made Barksdale a synonym for advanced measurement and control solutions since 1949. We continuously adapt our innovations to market requirements and offer customized solutions thanks to our global presence. With facilities in North America, Europe and Asia, we are a leading provider that combines close customer relationships with the highest level of technological expertise. Barksdale is part of the global Crane Co. Group. By utilizing synergy effects, growth and customer orientation are always the focus of all business units.

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