

Mercury free **TILT SWITCH**

**BS2**

**DUK**  
DITTELBACH UND KERZLER

- High level detector in bins
- Low level detector
- Chute plug-up detector
- Transfer point plug-up detector
- Crash probe
- No-flow detector

This tilt switch will provide an output whenever it is tilted more than approximately 22° out of vertical.

It is equipped with an inductive proximity sensor. If hanging vertical, an internal steel ball lies in front of the face of the sensor. When tilted regardless of direction more than 22° , the ball leaves the face of the inductive sensor and the electrical signal changes. The hysteresis for switching back is approximately 10°.

This probe is encapsulated by a potting compound in an all stainless steel tube with a wall strength of 2mm. This heavy duty design allows speedy lateral impacts.

It is equipped with a most flexible rubber connection cable which is UV- ozone- and oil resistant and flame retardant, fix bonded to the probe. The 3-wire electrical connection is same easy as the wiring of any customary inductive sensor.

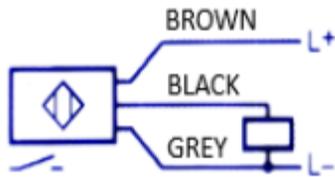


- **ALL STAINLESS STEEL HOUSING**
- **IP69K PROTECTED**
- **MERCURY FREE**



For fixing a customer-specific buoyancy chamber or wing, it provides a female M10-thread in the bottom of the tube.

# TILT SWITCH BS2



## Connection by Colour Code

### Technical data

#### HOUSING

Protection	all stainless steel
Actuation angle	IP69K
Hysteresis	approx. 22° in any angle from vertical
	approximately 10°

#### INDUCTIVE SENSOR

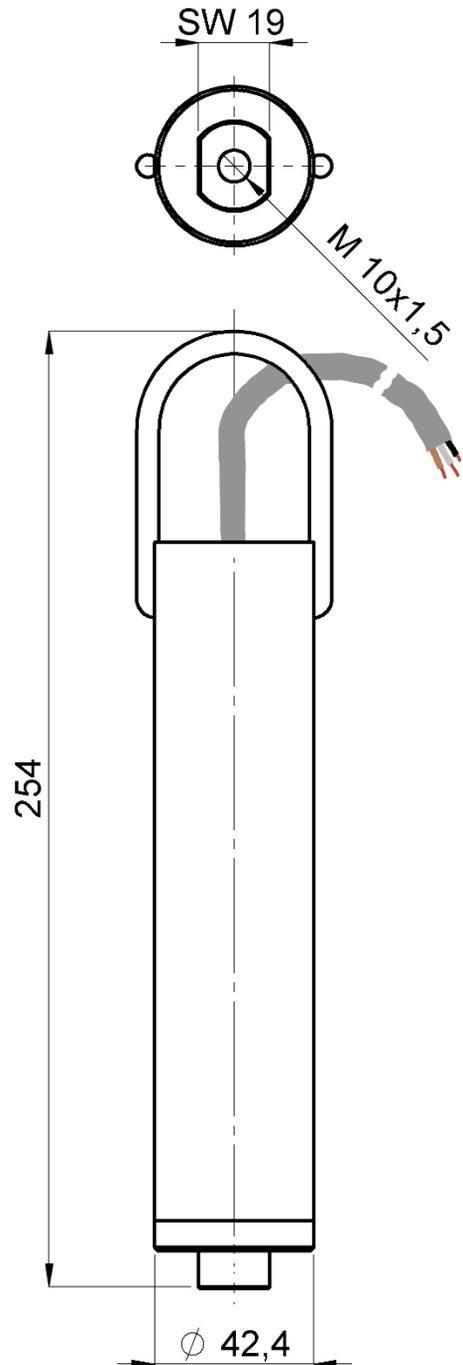
Manufacturer / type	PNP, closed if vertical
Conformity	ifm / IFS703
Voltage U <sub>b</sub>	EN 60947-5-2
Consumption	10 up to 30VDC supply class 2 acc UL
Current I <sub>e</sub>	< 10mA
Utilisation category	max 100mA
Voltage drop	DC-13
MTTF	max 2,5VDC
	861 years

#### CONNECTION CABLE

Length	rubber
Diameter	7m
Flame Retardance	8,4mm
UV resistivity	IEC/EN 60332-1-2
Ozone resistivity	yes
Oil resistivity	yes
	according EN 60811-404

#### GENERAL

Weight	1,5kg
Ambient temperature	-25°C up to +55°C due to cable specifications
Resetting delay, typ.	other on request
	1s



### Ordering Code

BS202571 total length 254mm, cable length 7m, rubber cable