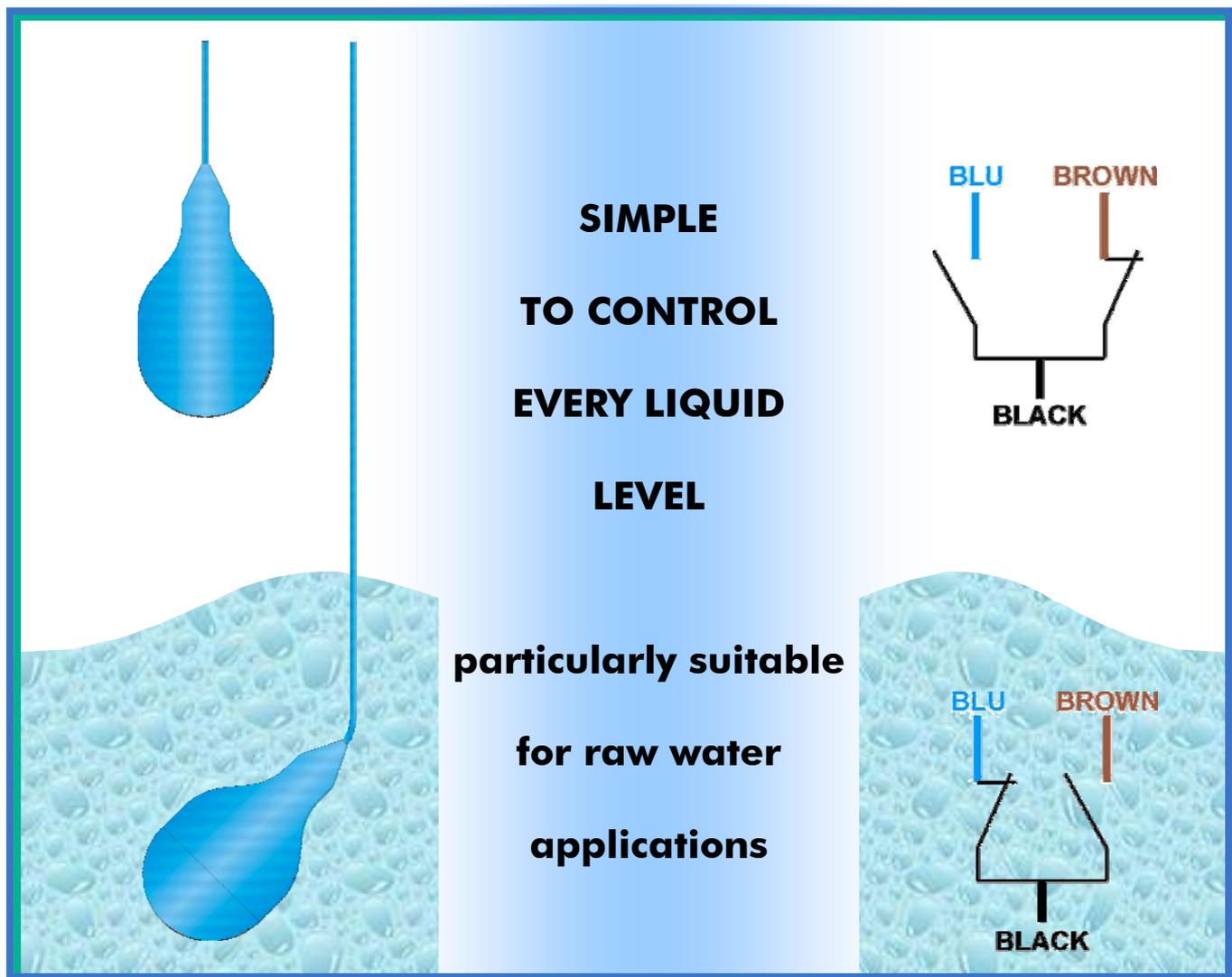


## NON FLOATING LEVEL SWITCH



### Special Features and Application

BM/Sw Eco is a simple and reliable solution for water level control and belongs to a new generation of level switches where mercury, used in the past, has been replaced with up-to-date environment friendly materials. Level switches are often used in environmental engineering systems, such as pumping stations and sewage plants, therefore it is very important that they do not contain mercury.

The most common use of the level switch BM/Sw Eco is start and stop control of pumps or alarm operation according to liquid level in pumping stations, sewage plants and water works in general.

Often this kind of level switch is improperly called "float switch", but BM/Sw Eco does not float at all, therefore it is particularly suitable for raw water applications such as sewage effluents or industrial discharges and specially where high content of fat, fibrous material and suspended solids are present.

When the liquid level reaches the level switch, it only changes position rotating approximately 45° and the switch contact will close or open for the desired control.

2.95GB/0209

Our products are continuously improved therefore we reserve the right to modify or improve technical specifications without notice

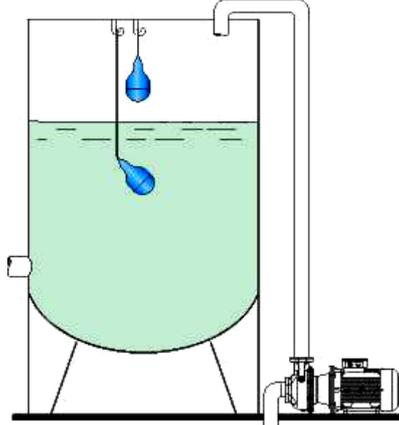
## Data Sheet

**Function**

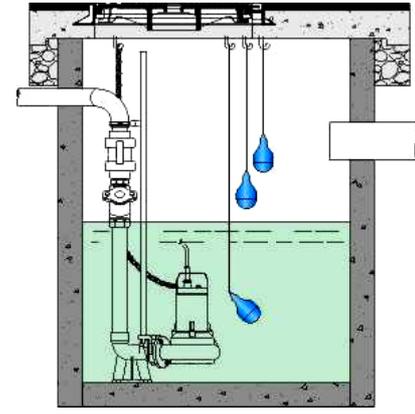
The level switch BM/Sw ECO just needs to be hanged at the desired height, in the well or tank, where the level set point is required, and its function is defined according to the chosen wires, (black and brown or black and blue respectively for NO or NC contact).

It does not need external equipment, since an asymmetric counter weight is incorporated in the switch body. The level switch BM/Sw ECO will either be used for start or stop control, or a single alarm point.

**Examples of Installation**



For automatic filling of a tank the black and brown wires should be used and blue should be isolated.



For automatic emptying of a tank black and blue wires are to be used while brown should be isolated.

<b>Technical Data</b>	Casing:	High density polyethylene
	Counter weight	Asymmetric incorporated in the level switch body
	Contact system:	Micro switch SPDT contact - 10(3) A 250 VAC, according to EN61058
	Electric cable:	3 x 0,75 mm <sup>2</sup> with PVC external protection, highly flexible also with low temperatures, manufactured as standard in measures of 5, 10 or 20 metres
	Dimensions:	Drop shape Ø 100 x H 187 mm
	Net Weight:	1380 gr. with 5 mt. cable
	Temperature:	0-60 °C
	Protection:	IP68 withstands continuous immersion up to 30 m.w.c.
	CE:	EN50081-1, EN50082-1
	Standard versions are for liquids with specific weight between 0,95 – 1,05 kg/dm <sup>3</sup>	
For liquids with different specific weight, special versions can be supplied on request		

<b>Resistance to various liquids and chemicals</b>	The level switch BM/Sw Eco assures a good resistance to many chemical agents and highly corrosive liquids, thanks to its synthetic structure. Examples of safe applications are listed below:		
	Acetic acid (up to 50%)	Glycerine	Rubber
	Alcohol	Hydrogen sulphide	Salt solution
	Aluminium sulphate	Iron chloride	Sea water
	Ammonium sulphate	Iron sulphate	Soapy water
	Beer	Lead acetate	Soda
	Boric acid	Lime sludge	Sodium bicarbonate
	Calcium bisulphite	Kerosene	Sodium chloride
	Calcium chloride	Magnesium sulphate	Sodium cyanide
	Calcium cyanide	Milk	Sodium hydrate
	Calcium hypochlorite	Molasses	Sodium hyper chlorite
	Calcium nitrate	Oils:	Sodium nitrate
	Caustic soda	Diesel oil	Sodium silicate
	Cider	hydraulic oil	Sodium sulphate
	Citric acid (18%)	insulating oil	Sodium sulphite
	Copper sulphate	lubricating oil	Starch
	Cyanide	olive oil	Sulphuric acid (up to 45%)
	Formaldehyde (40%)	Paraffin	Sugar stock
	Fruit juices	Phosphoric acid (30%)	Wine
	Glauber's salts	Potassium hydroxide	Yeast
Glycol	Potassium nitrate	Zinc chloride	
Glucose	Potassium sulphate		