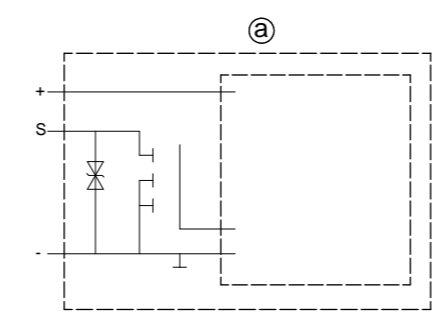
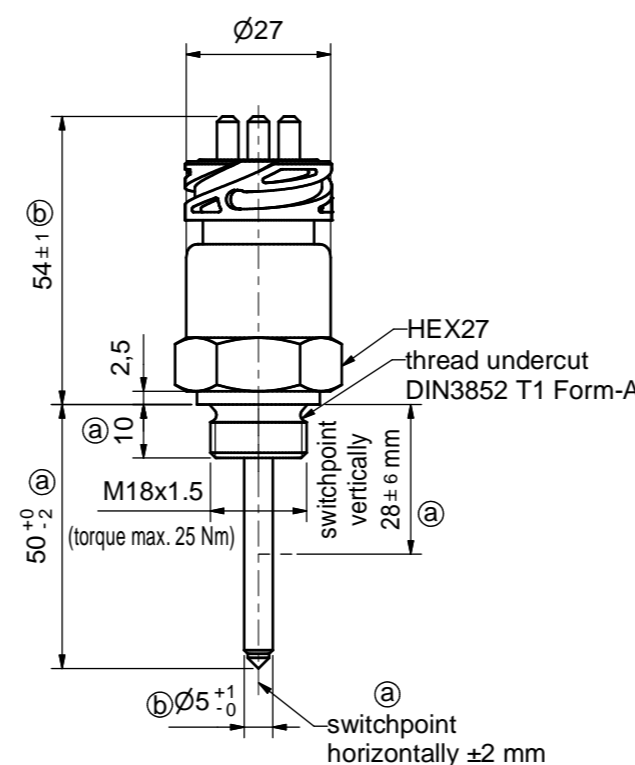


Any non-compliance shall obligate the violator to compensate for damages. In case any patent is issued or a utility model is registered, or in case of any other industrial property rights, all such rights must be reserved for us.

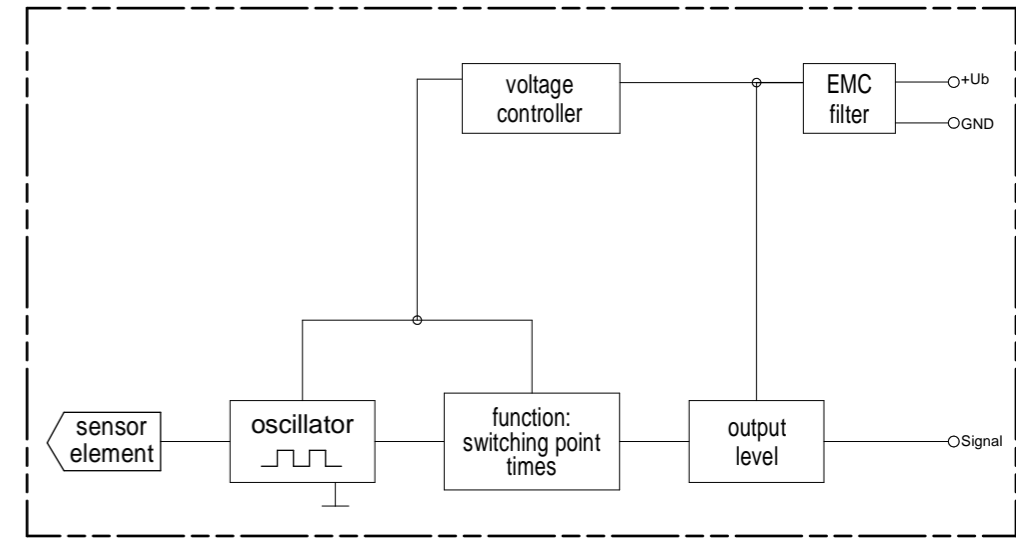
BEDIA Motorentechnik GmbH & Co.KG, Altdorf bei Nürnberg

	11	10	9	8	7	6	5	4	3	2	1
<b>① Technical data</b>	<p>Medium: water, coolant</p> <p>Function: minimum - operating current (oc)</p> <p>Operating voltage: 12 / 24 V (-25% / +50%) (9 - 36 VDC)</p> <p>Current consumption: &lt; 8 mA</p> <p>Output: low side switch</p> <p>≤ 1 A over the whole temperature range</p> <p>short-circuit and overload protected over the ambient temperature range. At inductive loads freewheeling diode e.g. 1N4007, has to be mounted at the load.</p> <p>Mounting thread: M18x1,5</p> <p>Function control: 2 seconds ± 5%</p> <p>Fault indication delay: 7 seconds ± 5%</p> <p>Connection: connector bayonet 16S</p> <p>Housing material: CuZn38Pb2</p> <p>Probe coating: EN12164; CW608N</p> <p>Probe protection: capacitive connected to ground</p> <p>Weight: Tefzel® ETFE</p> <p>Marking: IP 67 to DIN40050</p> <p>Switch point hysteresis: approx. 100 g</p> <p>Medium temperature: manufacturer; type; manufacturer no.; ②</p> <p>Ambient temperature: SN; year / week; approval</p> <p>Storage temperature: &lt; 3 mm</p> <p>Mounting position: -40 °C to +125 °C (-40 °F to +257 °F)</p> <p>Reverse polarity protection: -40 °C to +125 °C (-40 °F to +257 °F)</p> <p>inbuilt between positive and negative terminal</p> <p>-50 °C to +125 °C (-58 °F to +257 °F)</p> <p>optional</p>										
<b>Caution!!</b>	<p>Do not connect negative potential to signal terminal of the sensor and positive potential to negative terminal of the sensor.</p>										
<b>Approval</b>	<p>e1</p> <p>035459</p> <p>90261029</p>										
<b>Environmental simulations</b>	<p>Vibration: ISO 16750-3:2007 10 Hz - 2000 Hz 20 g</p> <p>Free Fall: IEC 16750</p> <p>Mechanical Shock: DIN EN 60068-2-27:1995; 100 g / 11ms</p> <p>Dry Cold: DIN EN 60068-2-1:2006; -40 °C / 24 h (-40 °F / 24 h)</p> <p>Dry Heat: DIN EN 60068-2-2:2008; +125 °C / 96 h (+257 °F / 96 h)</p> <p>Temperature cycling: DIN EN 60068-2-14:2000</p> <p>Damp Heat: DIN EN 60068-2-78:2002</p> <p>Damp Heat, steady state: DIN EN 60068-2-30:2006</p> <p>Salt spray: DIN EN 60068-2-52:1996</p> <p>Pressure resistance: 2,5 MPa (25 bar / 362,6 psi) (25°C / 77°F / 1 h)</p>										
<b>EMC</b>	<p>Radiated emission: 2004/104/EG 30 MHz - 1 GHz; 1 m</p> <p>Conducted transient emission: ISO 7637-2:2004</p> <p>Immunity to RF electromagnetic fields: ISO 11452-1/-2 1000 MHz - 2000 MHz; 150 V / m (rms)</p> <p>Immunity to RF electromagnetic fields in the stripline: ISO 11452-1/-5 20 MHz - 1000 MHz; 150 V / m (rms)</p> <p>Transient immunity test on power lines: ISO 7637-2:2004 Impulse 1, 2a, 2b, 3a, 3b, 4</p>										

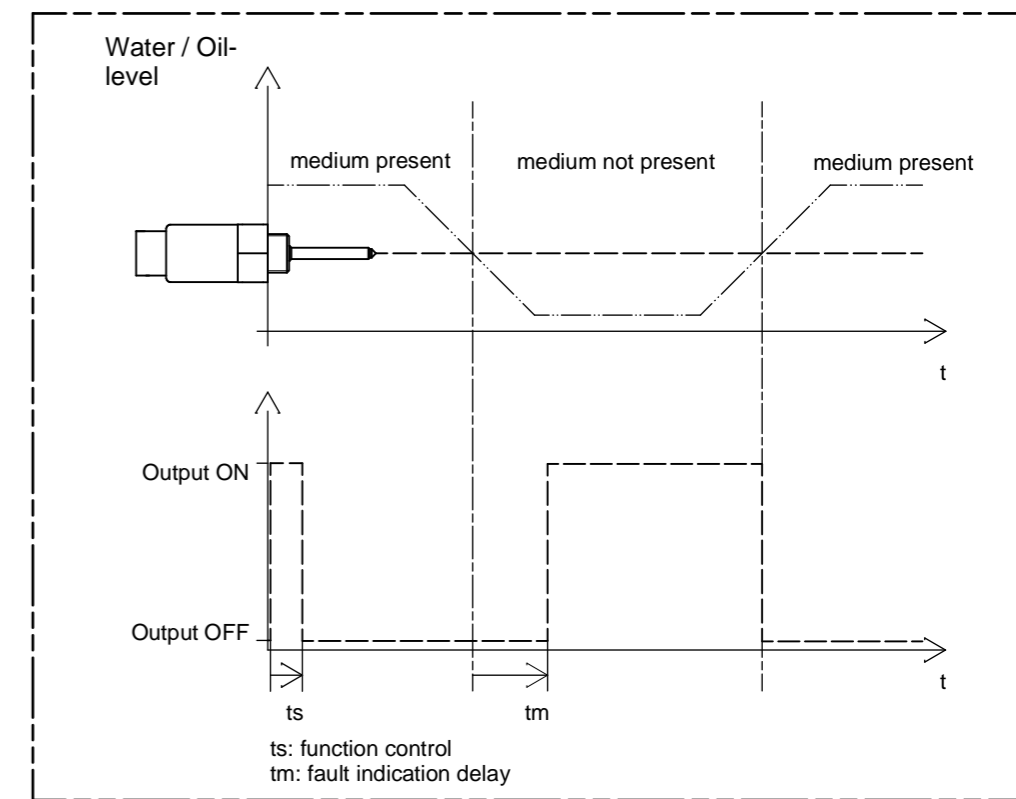


For this level sensor with suppressor diode between sensor output (S) and minus contact the supply voltage of the switching load has to be 7,5 V or less. At a higher voltage than 7,5 V the current of the diode must be 10 mA or less. If the supply voltage is higher than 7,5 V and the current of the diode is higher than 10 mA the sensor is not short-circuit proof.

① Block diagram



Functional diagram for MINIMUM Probes ②



field of application	admissible tolerance	surface	scale 1:1	position -	amount -
	ISO2768-mK				
date	name	description			
created by 05.12.2007	Möderer	CLS-40 water level sensor low side switch - operating current with connector bayonet 16S			
checked by 05.12.2007	Zibes				
rev.	modification	date	name/checked by	drawing number	sheet
b	revised	03.05.11	Bernath/Saß	321563	1/1
a	revised	10.03.10	Möderer/Saß		
drawing path: i:\CAD\321563\321563.dwg				drawing number	

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