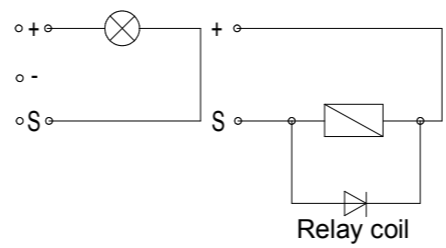
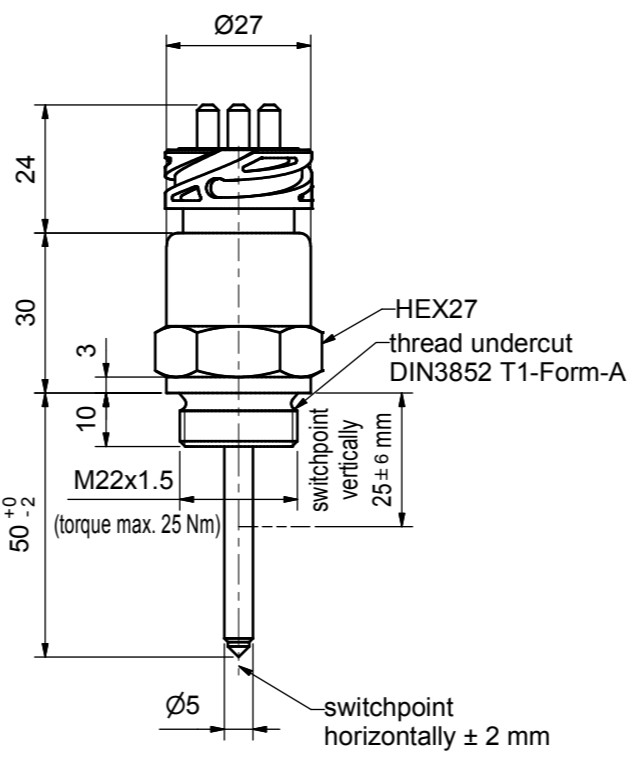


Any non-compliance shall obligate the violator to compensate for damages. In case any patent is issued or a utility model is registered, or in case of any other industrial property rights, all such rights must be reserved for us.

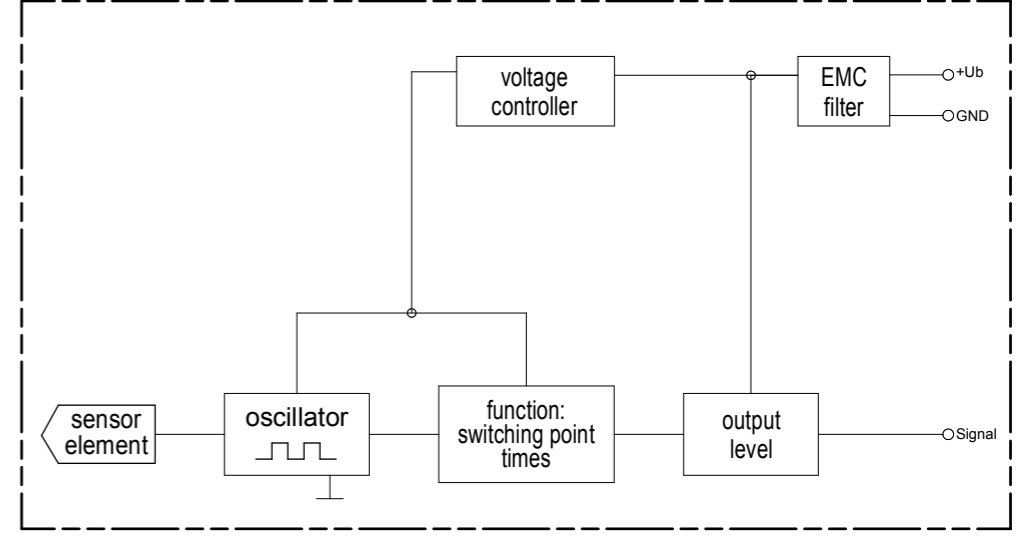
The copyright to this drawing belongs to us. No duplication or transfer to, providing access to or communicating to any third parties is allowed of its contents or excerpts thereof. This drawing may not be used without our approval for any purpose other than that for which it has been entrusted to the recipient.

BEDIA Motorentechnik GmbH & Co.KG, Altdorf bei Nürnberg

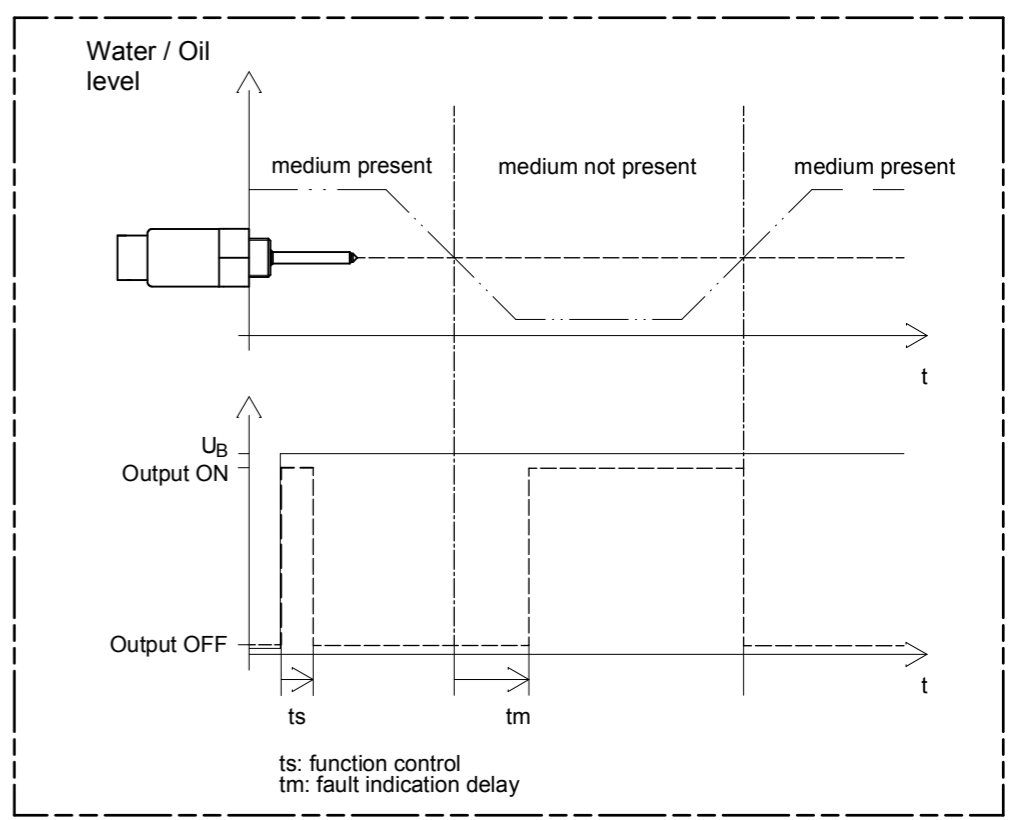
11	10	9	8	7	6	5	4	3	2	1		
Technical data												
Medium		water, coolant										
Function		Minimum - operating current (oc)										
Operating voltage		12 / 24 V (-25% / +50%) (9 - 36 VDC)										
Current consumption		typ. < 8 mA										
Output		low side switch										
		≤ 1 A over the whole temperature range										
		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.										
Mounting thread		M22x1,5										
Function control		1 second ± 5%										
Fault indication delay		17 seconds ± 5%										
Connection		connector bayonet 16S										
Housing material		CuZn38Pb2										
		EN12164; CW608N										
		capacitive connected to ground										
Probe coating		Tefzel® ETFE										
Probe protection		IP 67 to DIN40050										
Weight		approx. 115 g										
Marking		manufacturer; type; manufacturer no.; SN; year / week; approval										
		typ. < 3 mm										
Switch point hysteresis												
Medium temperature		-40 °C to +125 °C (-40 °F to +257 °F)										
Ambient temperature		-40 °C to +125 °C (-40 °F to +257 °F)										
Storage temperature		-50 °C to +125 °C (-58 °F to +257 °F)										
Mounting position		optional										
Reverse polarity protection		in-built, between positive and negative terminal										
Caution!!												
Do not connect negative potential to signal terminal of the sensor and positive potential to negative terminal of the sensor.												
Approval		<table border="1"> <tr> <td style="text-align: center;">e1</td> </tr> <tr> <td>035459</td> </tr> </table>									e1	035459
e1												
035459												
Customs tariff number		90261029										
Environmental simulations												
Vibration		ISO 16750-3:2007 10 Hz - 2000 Hz 20 g										
Free Fall		IEC 16750										
Mechanical Shock		DIN EN 60068-2-27:1995; 100 g / 11ms										
Dry Cold		DIN EN 60068-2-1:2006; -40 °C / 24 h (-40 °F / 24 h)										
Dry Heat		DIN EN 60068-2-2:2008; +125 °C / 96 h (+257 °F / 96 h)										
Temperature cycling		DIN EN 60068-2-14:2000										
Damp Heat		DIN EN 60068-2-78:2002										
Damp Heat, steady state		DIN EN 60068-2-30:2006										
Salt spray		DIN EN 60068-2-52:1996										
Pressure resistance		2,5 MPa (25 bar / 362,6 psi) (25°C / 77°F / 1 h)										
EMC												
Radiated emission		2004/104/EG 30 MHz - 1 GHz; 1 m										
Conducted transient emission		ISO 7637-2:2004										
Immunity to RF electromagnetic fields		ISO 11452-1/-2 1000 MHz - 2000 MHz; 150 V / m (rms)										
Immunity to RF electromagnetic fields in the stripline		ISO 11452-1/-5 20 MHz - 1000 MHz; 150 V / m (rms)										
Transient immunity test on power lines		ISO 7637-2/2004 Impulse 1, 2a, 2b, 3a, 3b, 4										



Block diagram



Functional diagram for MINIMUM Probes



field of application	admissible tolerance	surface	scale 1:1	position -	amount -
	ISO2768-mK				
	date	name	description		
	created by 15.06.2009	SchAl	CLS-40 water level sensor low side switch - operating current with connector bayonet 16S		
	checked by 19.01.2010	SasCh			
			drawing number	sheet	
			322501	1/1	
rev.	modification	date	name/checked by	drawing path: I:\CAD\322501\US.idw	

