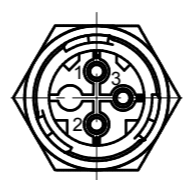
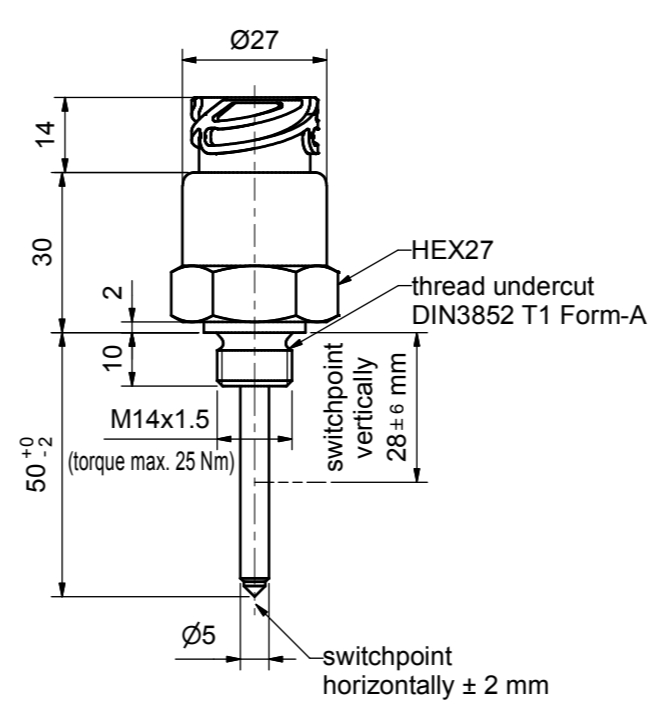


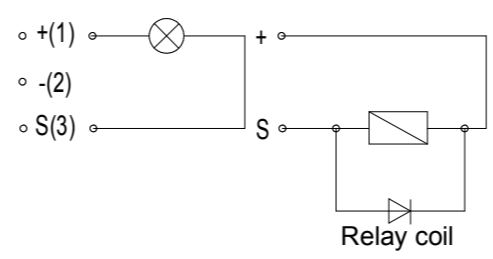
The copyright to this drawing belongs to us. No duplication or transfer to, providing access to or communicating to any third parties is allowed of its contents or excerpts thereof. This drawing may not be used without our approval for any purpose other than that for which it has been entrusted to the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

BEDIA Motorentechnik GmbH & Co.KG, Altdorf bei Nürnberg

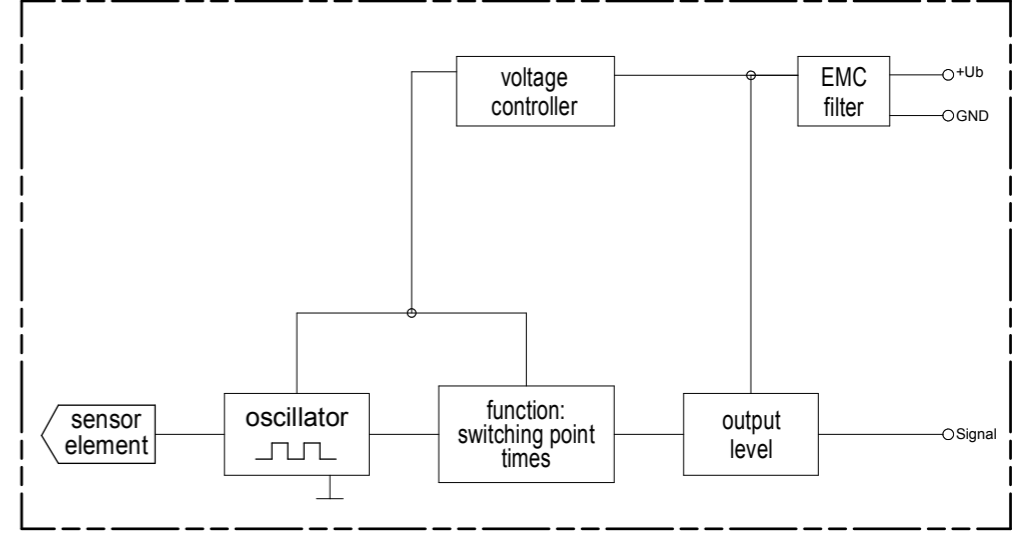
	11	10	9	8	7	6	5	4	3	2	1
Technical data											
Medium											water, coolant
Function											minimum - operating current (oc)
Operating voltage											12 / 24 V (-25% / +50%) (9 - 36 VDC)
Current consumption											typ. < 8 mA
Output											low side switch ≤ 1 A over the whole temperature 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											M14x1,5
Function control											1 second ± 5%
Fault indication delay											17 seconds ± 5%
Connection											connector DIN72585-A1-3.1-Sn/K1
Housing material											CuZn38Pb2 EN12164; CW608N
Probe coating											capacitive connected to ground
Probe protection											Tefzel® ETFE
Weight											IP 69K to DIN40050
Marking											approx. 85 g
Switch point hysteresis											manufacturer; type; manufacturer no.; SN; year / week; approval
Medium temperature											typ. < 3 mm
Ambient temperature											-40 °C to +125 °C (-40 °F to +257 °F)
Storage temperature											-40 °C to +125 °C (-40 °F to +257 °F)
Mounting position											-50 °C to +125 °C (-58 °F to +257 °F)
Reverse polarity protection											optional
											inbuilt 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											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



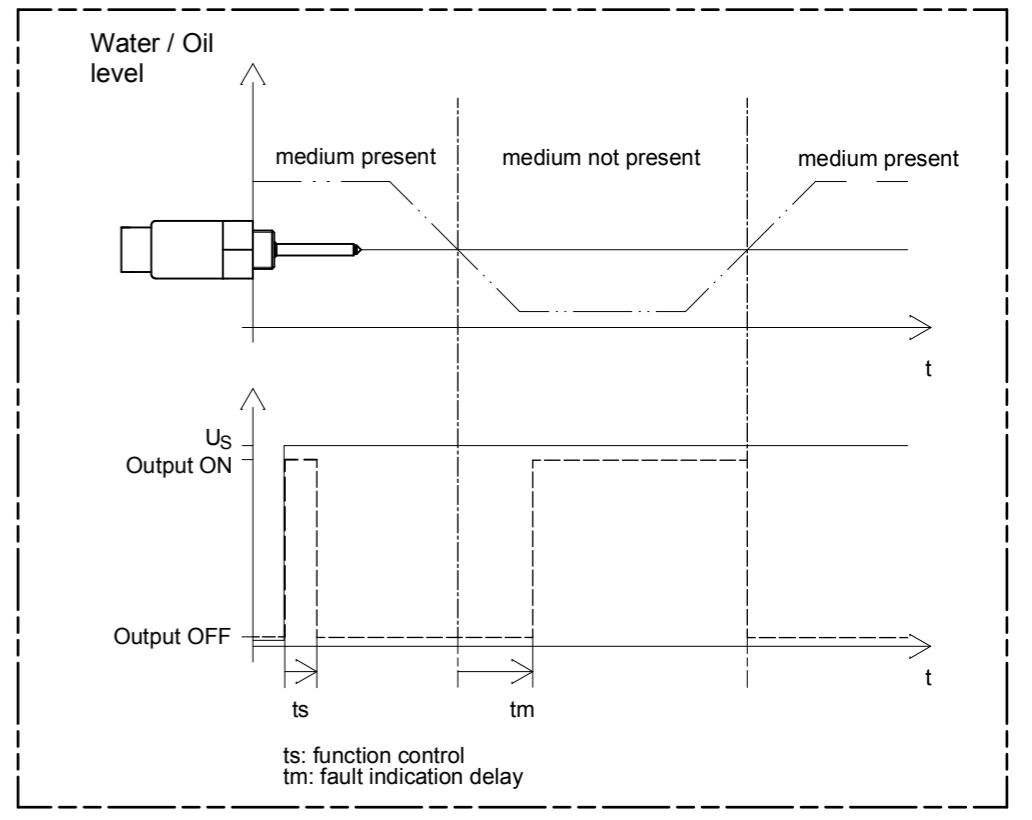
1 = positive (+)
 2 = negative (-)
 3 = signal (s)



Block diagram



Functional diagram for MINIMUM Probes



field of application	admissible tolerance	surface	scale 1:1	position -	amount -
	ISO2768-vK				
	date	name	description		
	created by 26.05.2009	SchAl	CLS-40 water level sensor low side switch - operating current with connector DIN72585-A1-3.1-Sn/K1		
	checked by 02.07.2010	StaRo			
			drawing number	sheet	
			320451	1/1	
rev.	modification	date	name/checked by	drawing path: I:\CAD\320320451\US.idw	