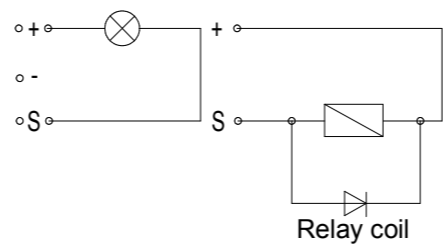
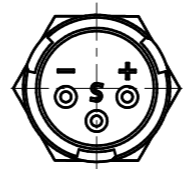
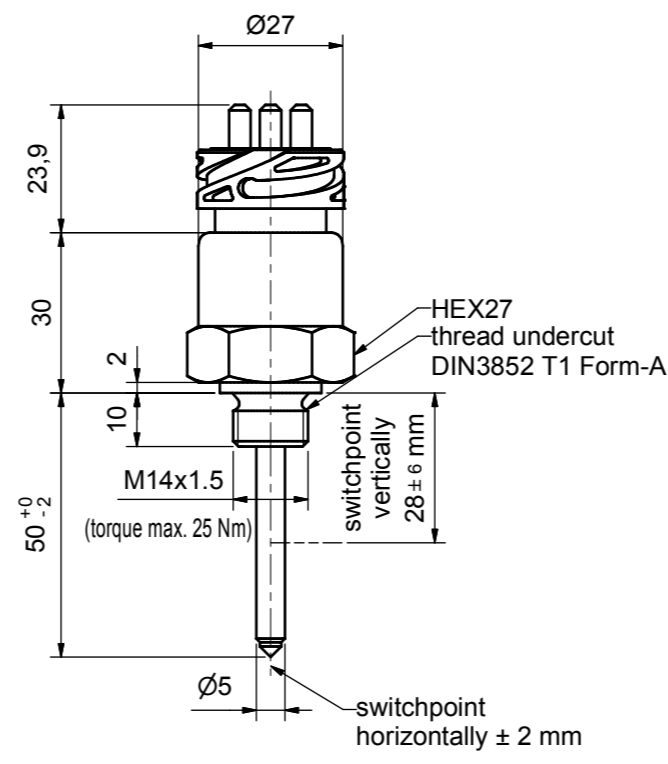


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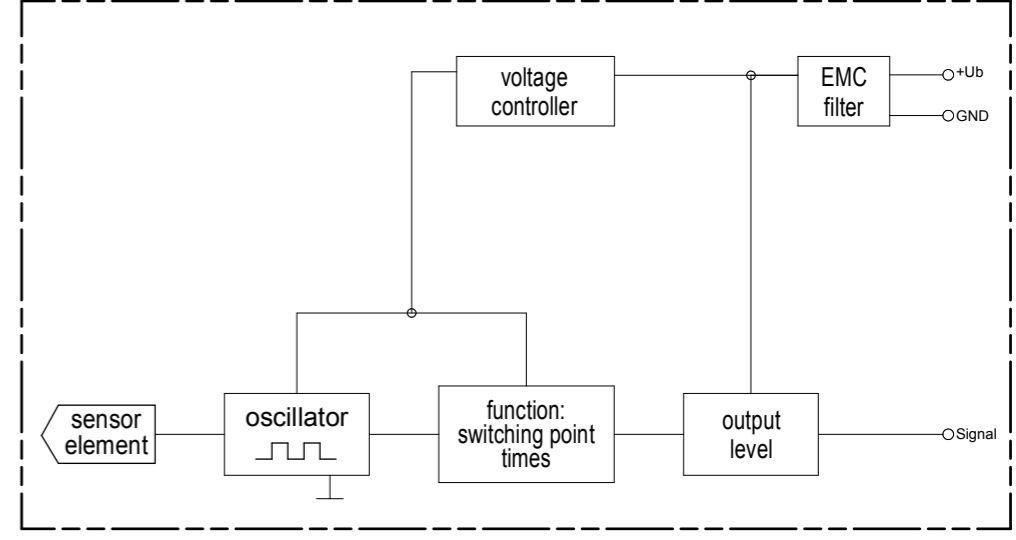
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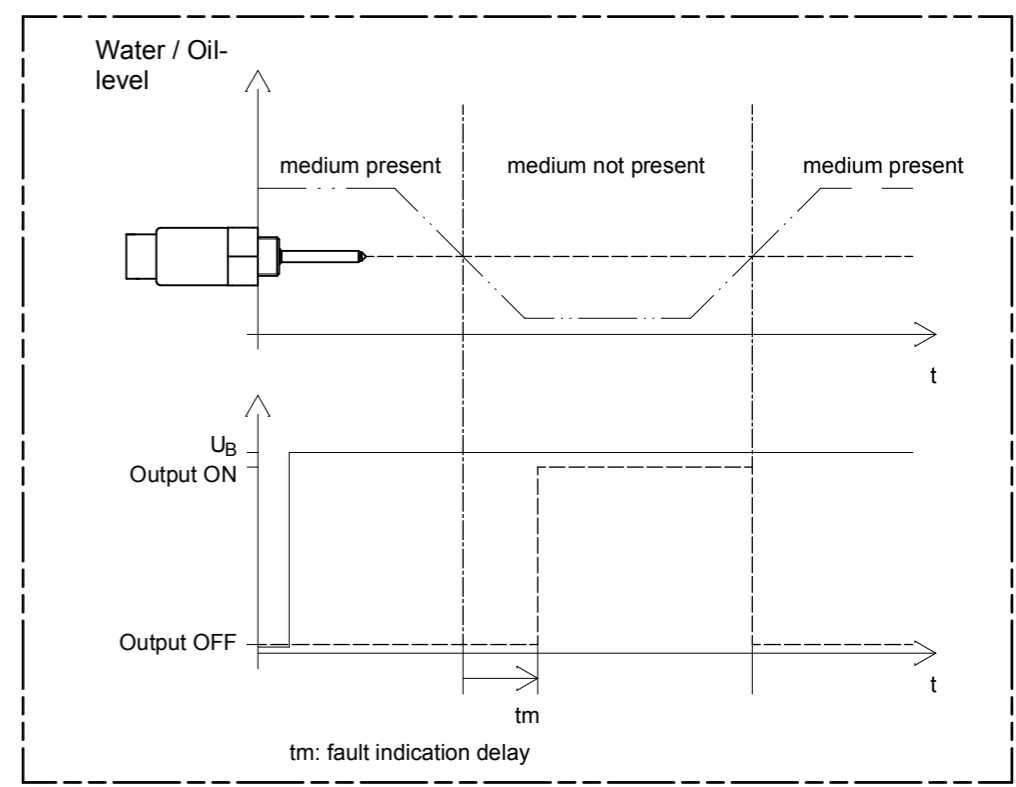
	11	10	9	8	7	6	5	4	3	2	1			
Technical data														
Medium	water, coolant													
Function	Minimum - operating current (oc)													
Operating voltage	12 / 24 V (-25% / +50%) (9 - 36 VDC)													
Current consumption	typ. < 8 mA													
Output	low side switch													
	≤ 1 A 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	0 seconds ± 5%													
Fault indication delay	7 seconds ± 5%													
Connection	connector bayonet 16S													
Housing material	CuZn38Pb2													
	EN12164; CW608N													
Probe coating	capacitive connected to ground													
Probe protection	Tefzel® ETFE													
Weight	IP 67 to DIN40050													
Marking	approx. 95 g													
	manufacturer; type; manufacturer no.;													
	SN; year / week; approval													
Switch point hysteresis	typ. < 3 mm													
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	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	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>e1</td></tr> <tr><td>035459</td></tr> <tr><td>90261029</td></tr> </table>											e1	035459	90261029
e1														
035459														
90261029														
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 17.02.2010	Moderer	CLS-40 water level sensor low side switch - operating current with connector bayonet 16S		
	checked by 17.02.2010	Saß			
			drawing number	sheet	
			321564	1/1	
rev.	modification	date	name/checked by	drawing path: I:\CAD\321564\US.dwg	