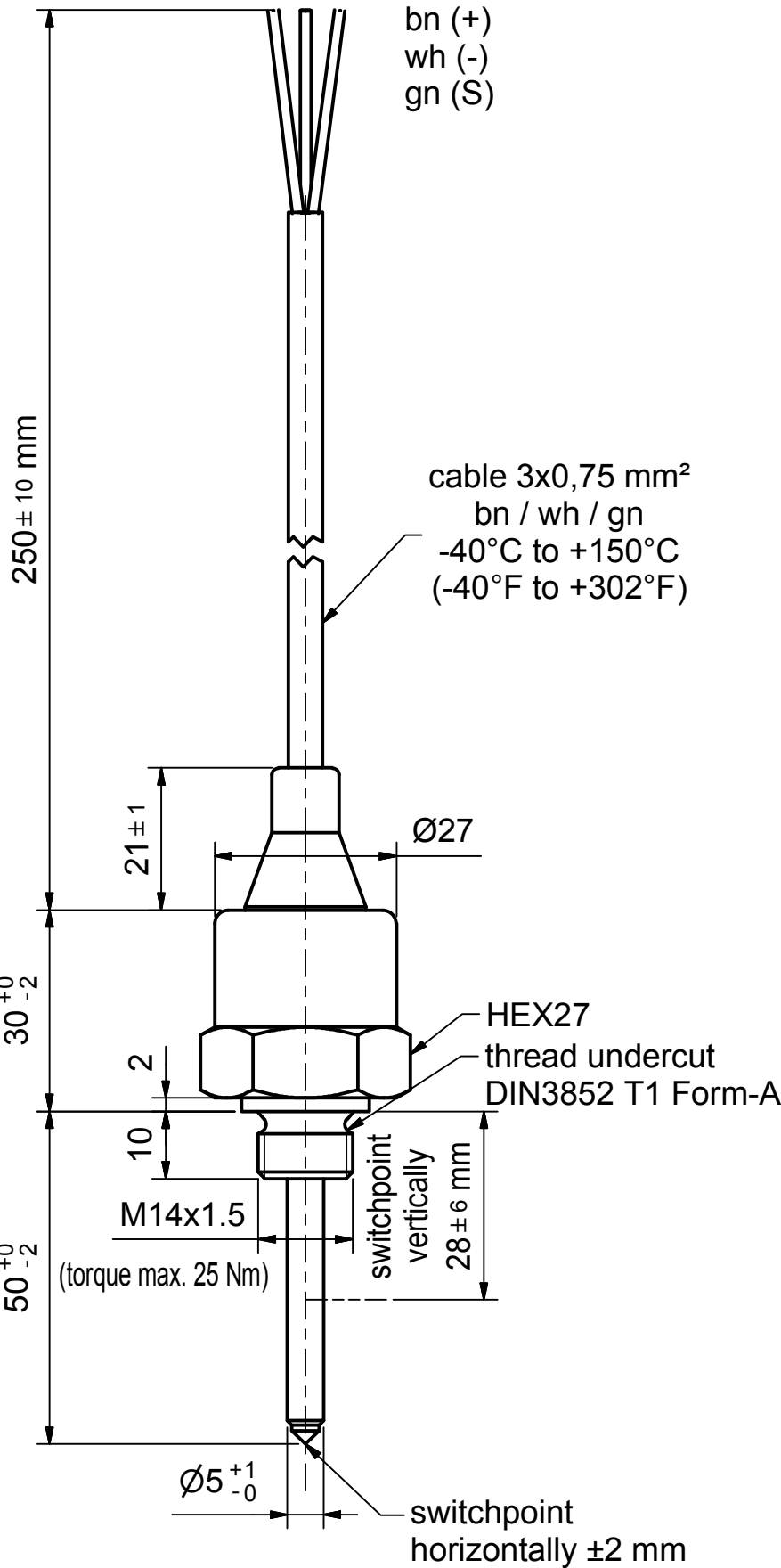
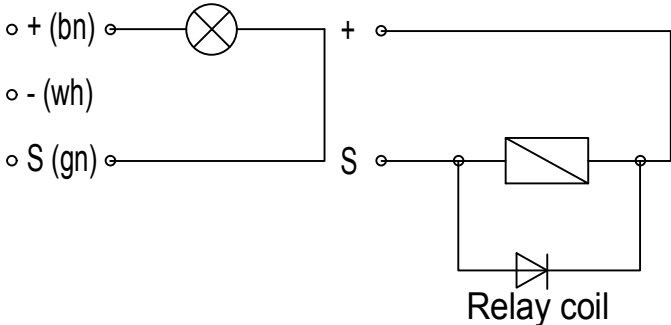


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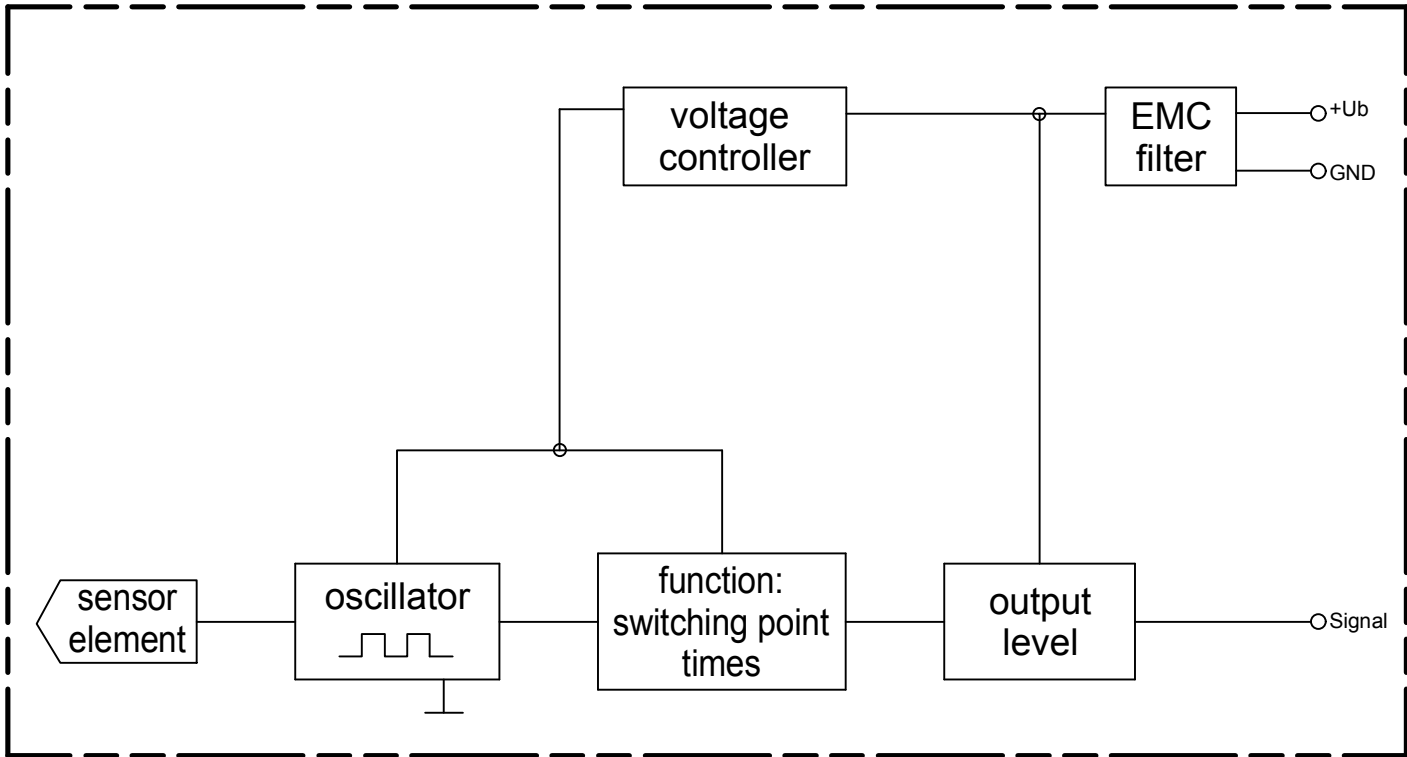
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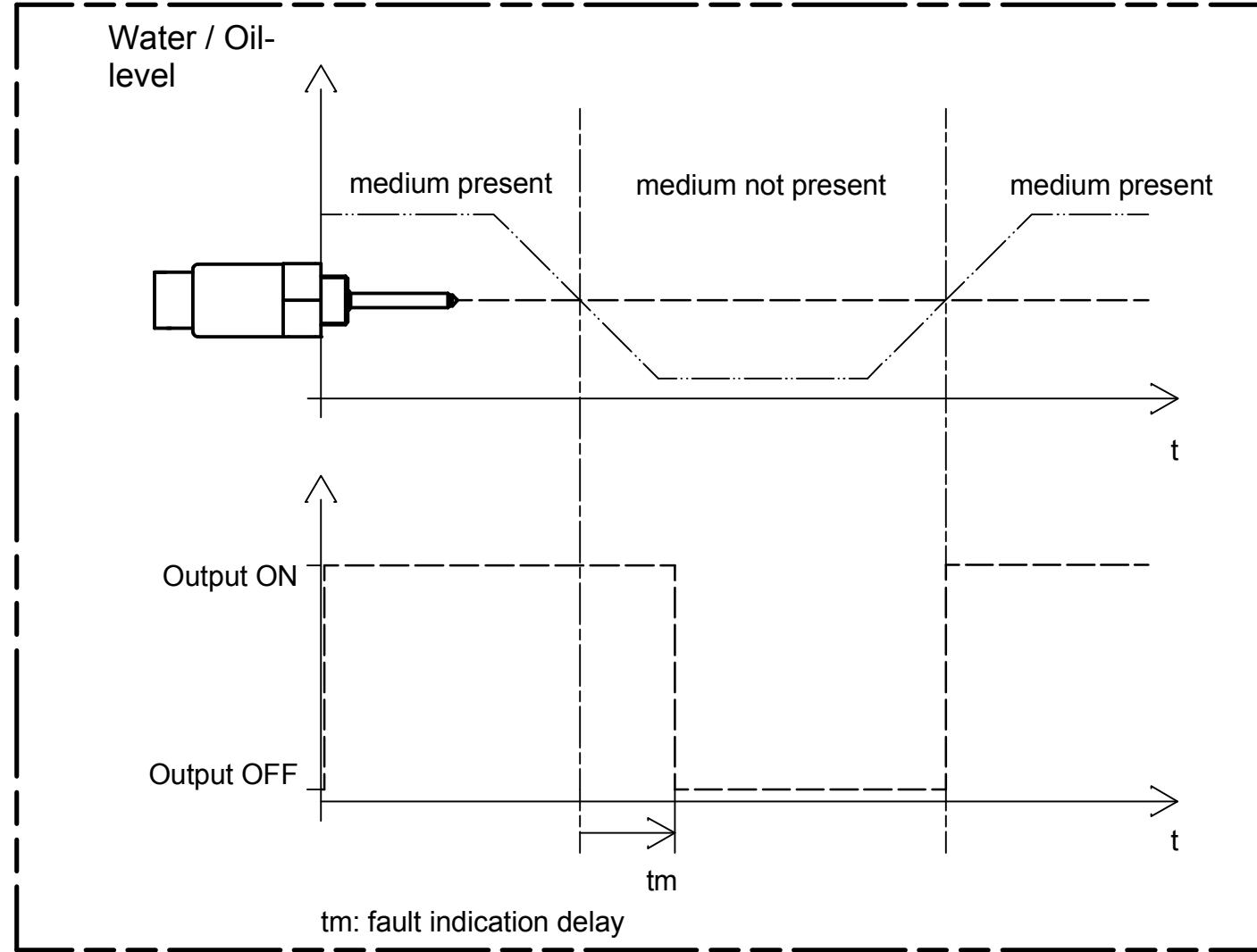
	1	2	3	4	5	6	7	8	9	10	11
A	Technical data										A
B	Medium	water, coolant									
	Function	minimum - quiescent current (rc)									
	Operating voltage	12 / 24 V (-25% / +50%) (9 - 36 VDC)									
	Current consumption	< 8 mA									
	Output	low side switch ≤ 1 A over the whole temperature range 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.									
C	Mounting thread	M14x1,5									
	Function control	0 seconds ±5%									
	Fault indication delay	7 seconds ±5%									
	Connection	cable									
	Housing material	CuZn38Pb2 EN12164; CW608N capacitive connected to ground									
	Probe coating	Tefzel® ETFE									
	Probe protection	IP 69K to DIN40050									
	Weight	approx. 95 g									
	Marking	manufacturer; type; manufacturer no.; SN; year / week; approval									
D	Switch point hysteresis	< 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									
E	Caution!! Do not connect negative potential to signal terminal of the sensor and positive potential to negative terminal of the sensor.										E
F	Approval	a  10R-03 5459									
	Customs tariff number	90261029									
G	Environmental simulations										G
	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 / 11 ms									
	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)									
H	EMC										H
	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 pulses 1, 2a, 2b, 3a, 3b, 4									
I											I



Block diagram



a) Functional diagram for MINIMUM Probes



				Zul. Abweichung / admissible tolerance	Oberfläche / surface	Maßstab / scale	1:1	Sprache / language	ENU	Blatt / sheet	1 / 1
				ISO2768-mK	-	-	-	-	-	-	-
				Datum / date	Name / name	Benennung / description					
				Erstellt / created by	02.02.2010	MoeMi	CLS-40 water level sensor low side switch - quiescent current with cable				
				Geprüft / checked by	02.02.2010	SasCh					
				Format / Size	A2	Maßeinheit / dimension unit	in [mm]				
				Zeichnungsnummer / drawing number						Zng. Art/ drw.type	
				321582						DRC	
				a revised	30.05.16	MoeMi/BonPa					
				Zust./ rev.	Änderung/modification	Datum/date	Name/Geprüft/ checked by				