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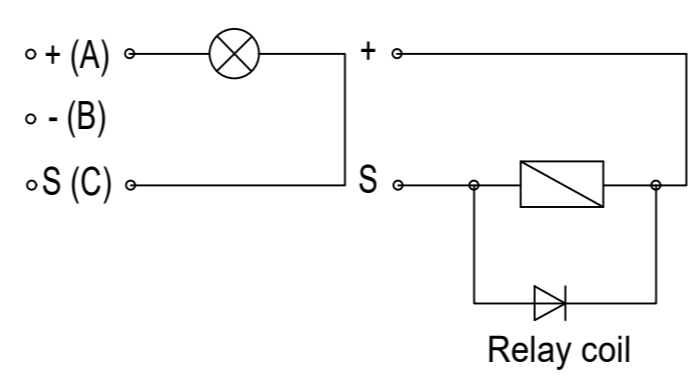
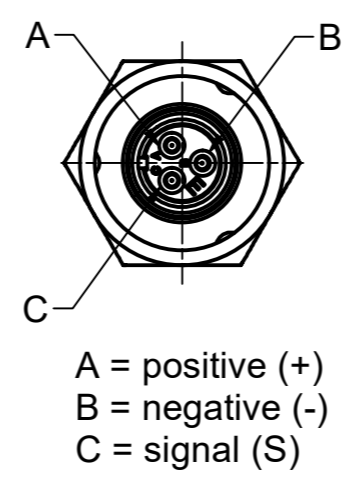
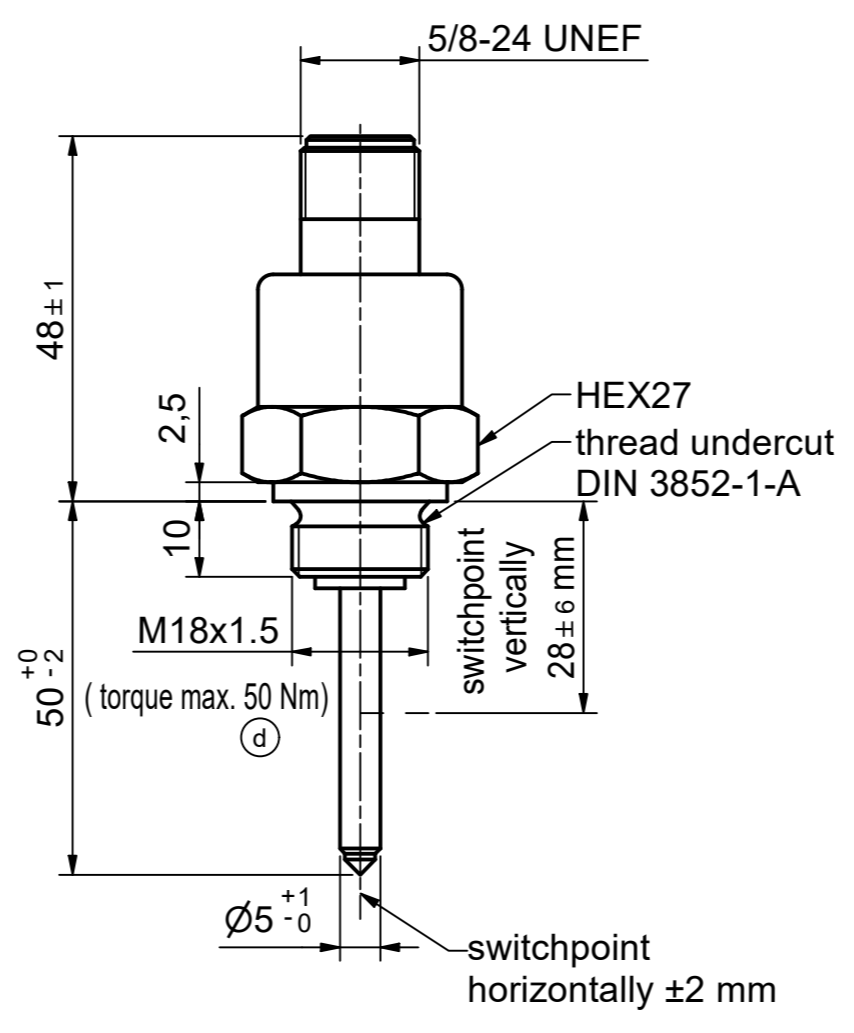
Technical data	
Medium	water, coolant
Function	minimum - operating current (oc)
Operating voltage	12 / 24 V (-25% / +50%) (9 - 36 VDC)
Current consumption	< 8 mA
Output	low side switch
	≤ 1 A over the whole temperature range
	short-circuit and overload protected over the ambient temperature range. At inductive loads freewheeling diode e.g. 1N4007, has to be mounted at the load.
Mounting thread	M18x1,5
Function control	2 seconds ±5%
Fault indication delay	7 seconds ±5%
Connection	connector fine thread 5/8-24 UNEF
Housing material	X5CrNi18-10
	EN 10088-3:1.4301
Probe coating	capacitive connected to ground
Probe protection	Tefzel® ETFE
Weight	① IP6K7 according to ISO 20653 with mounted mating connector approx. 95 g
Marking	manufacturer; type; manufacturer-no.; customer-part-no.; SN; year / week; approvals
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	any
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.

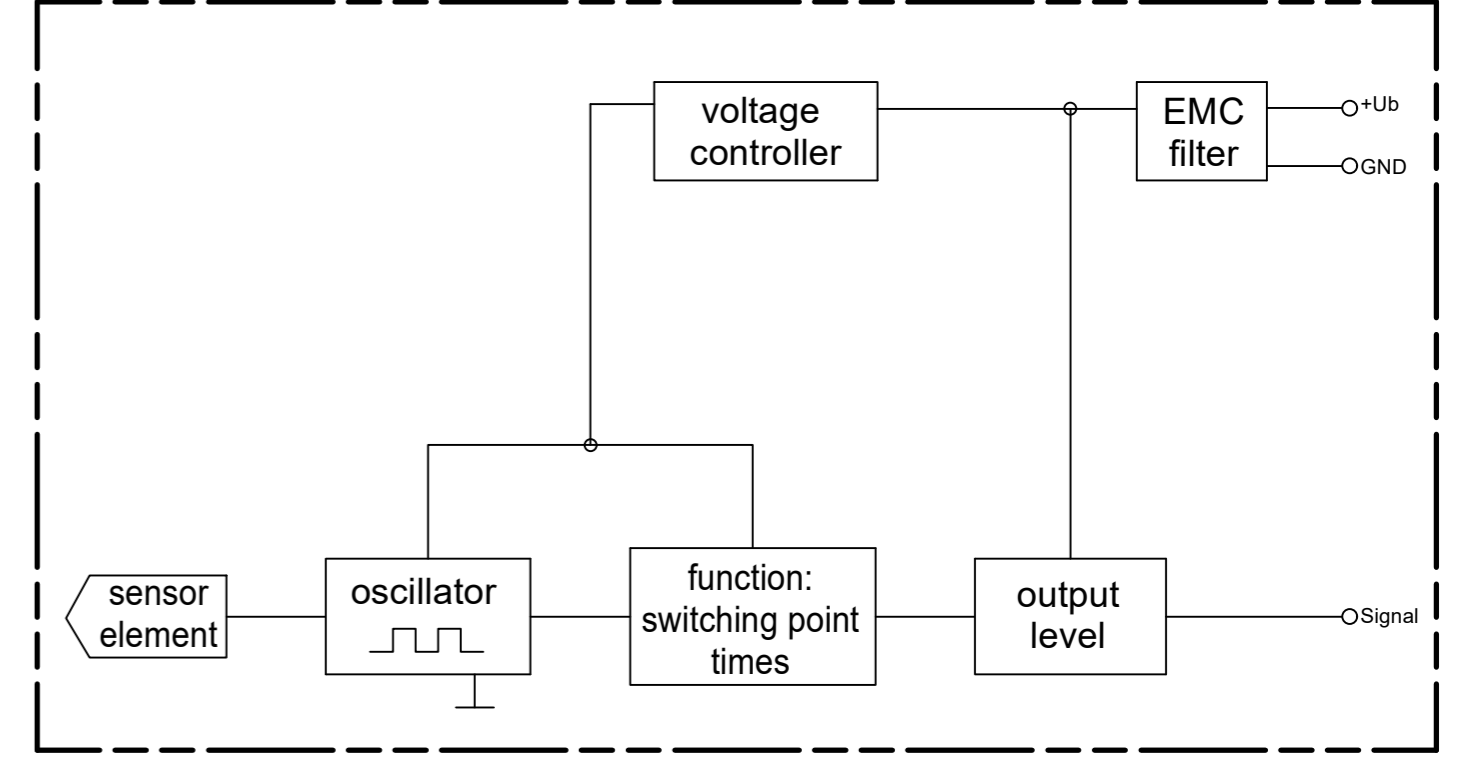
Approvals	ABS, BV, CCS, DNV, KR, LR, NKK, RINA, RMRS
Customs tariff number	90261029 ①

Environmental simulations	
Vibration	ISO 16750-3 10 Hz - 2000 Hz 20 g
Free Fall	IEC 16750
Mechanical Shock	DIN EN 60068-2-27; 100 g / 11 ms
Dry Cold	DIN EN 60068-2-1; -40°C / 24 h (-40°F / 24 h)
Dry Heat	DIN EN 60068-2-2; +125°C / 96 h (+257°F / 96 h)
Temperature cycling	DIN EN 60068-2-14
Damp Heat	DIN EN 60068-2-78
Damp Heat, cyclic	DIN EN 60068-2-30
Salt spray	DIN EN 60068-2-52
Flame retardant	DIN 75 200
Pressure resistance	2,5 MPa (25 bar / 362,6 psi) (25°C / 77°F / 1 h)

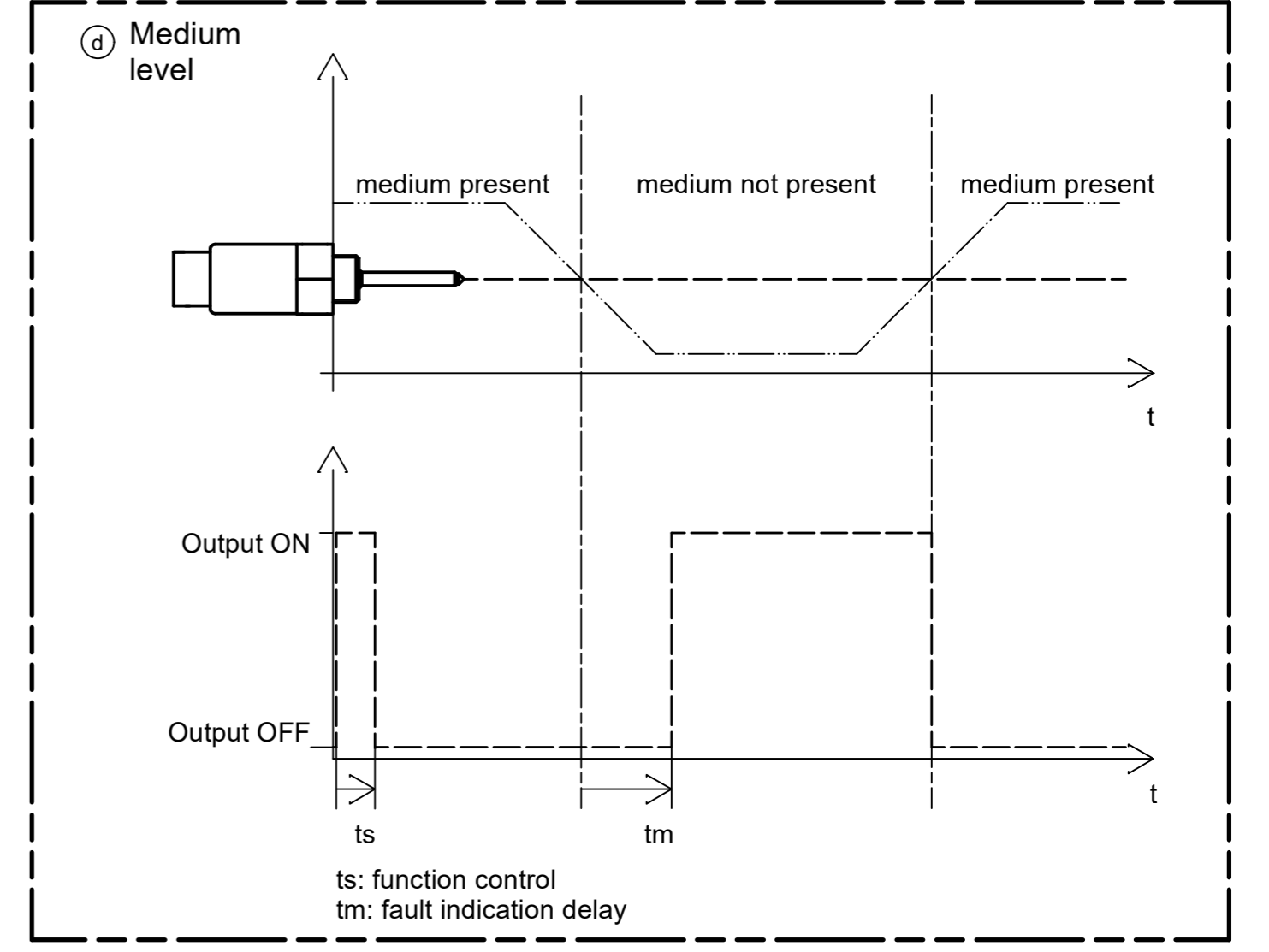
EMC		
Conducted emission from the power port	CISPR 16	10 kHz - 30 MHz
Electric field radiated emissions	CISPR 16	150 kHz - 6 GHz ①
RF electromagnetic fields	EN 61000-4-3	1 MHz - 6 GHz; 100 V / m ①
Conducted interference	EN 61000-4-6	150 kHz - 80 MHz; 10 V
Conducted interference	IEC 60533	50 Hz - 10 kHz; 3 V / 0,5 V
ESD	EN 61000-4-2	±8 kV Contact / Air discharge
Burst	EN 61000-4-4	±2 kV DC power port / signal lines
Surge	EN 61000-4-5	±1 kV line <-> ground ±0,5 kV line <-> line
High voltage	IEC 60092-504	550 V
Power supply variations and interruptions	EN 61000-4-11	Ub +50% / -25%



Block diagram



Functional diagram for MINIMUM Probes



Zul. Abweichung / admissible tolerance		Oberfläche / surface	Maßstab / scale	1 : 1	Sprache / language	ENU	Blatt sheet	1 / 1
ISO 2768-mK		-	-	-	-	-	-	-
Erstellt / created by		Datum / date	Name / name					
05.08.2008		07.08.2008	SchAl					
Geprüft / checked by		StaRo						
Format / Size		Maßeinheit / dimension unit						
A2		in [mm]						
Benennung / description		CL5-50 water level sensor low side switch - operating current with connector fine thread 5/8-24 UNEF						
Zug. Art/ drw type		DRC						
Zust./ rev.		Änderung/modification		Datum/date		Name/Geprüft/ checked by		Zeichnungsnummer / drawing number
a		revised		01.02.10		MoeMi/StaRo		500005
b		revised		09.09.10		MoeMi/StaRo		BEDIA®
c		customer-part-no.		14.02.11		MoeMi/StaRo		500005
d		A2017-05-06; 1A; 2022-03-11; 2 GHz -> 6 GHz; year removed. dv.		31.01.23		MoeMi/KoeLa		500005