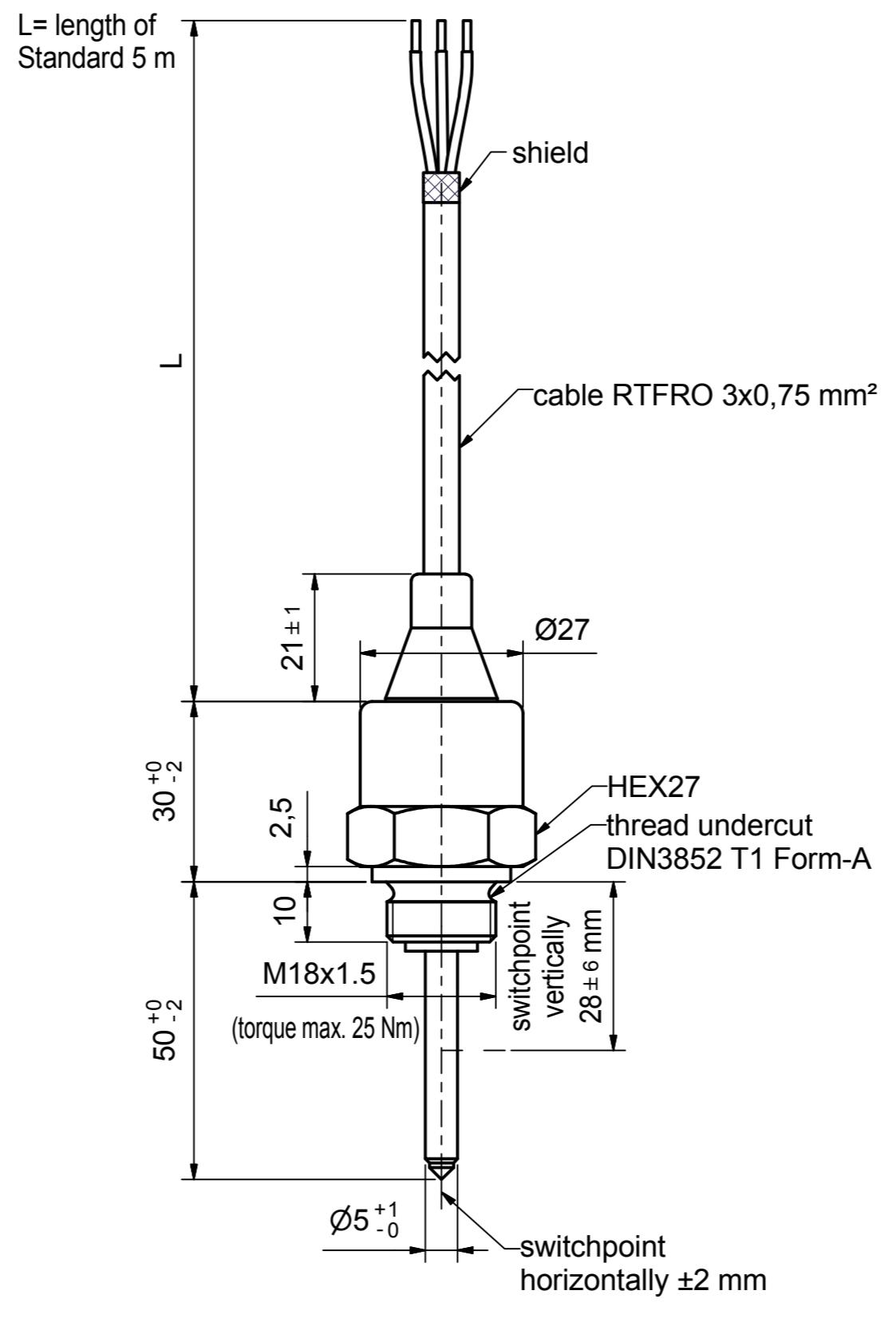
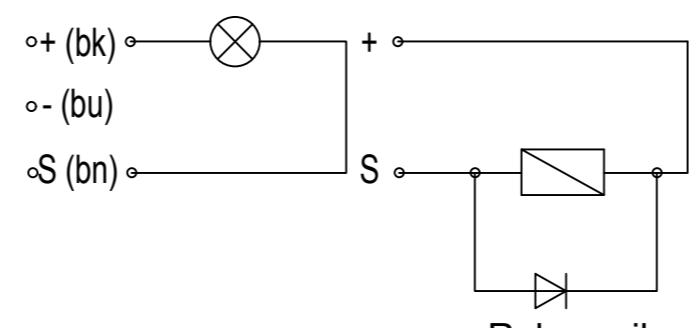


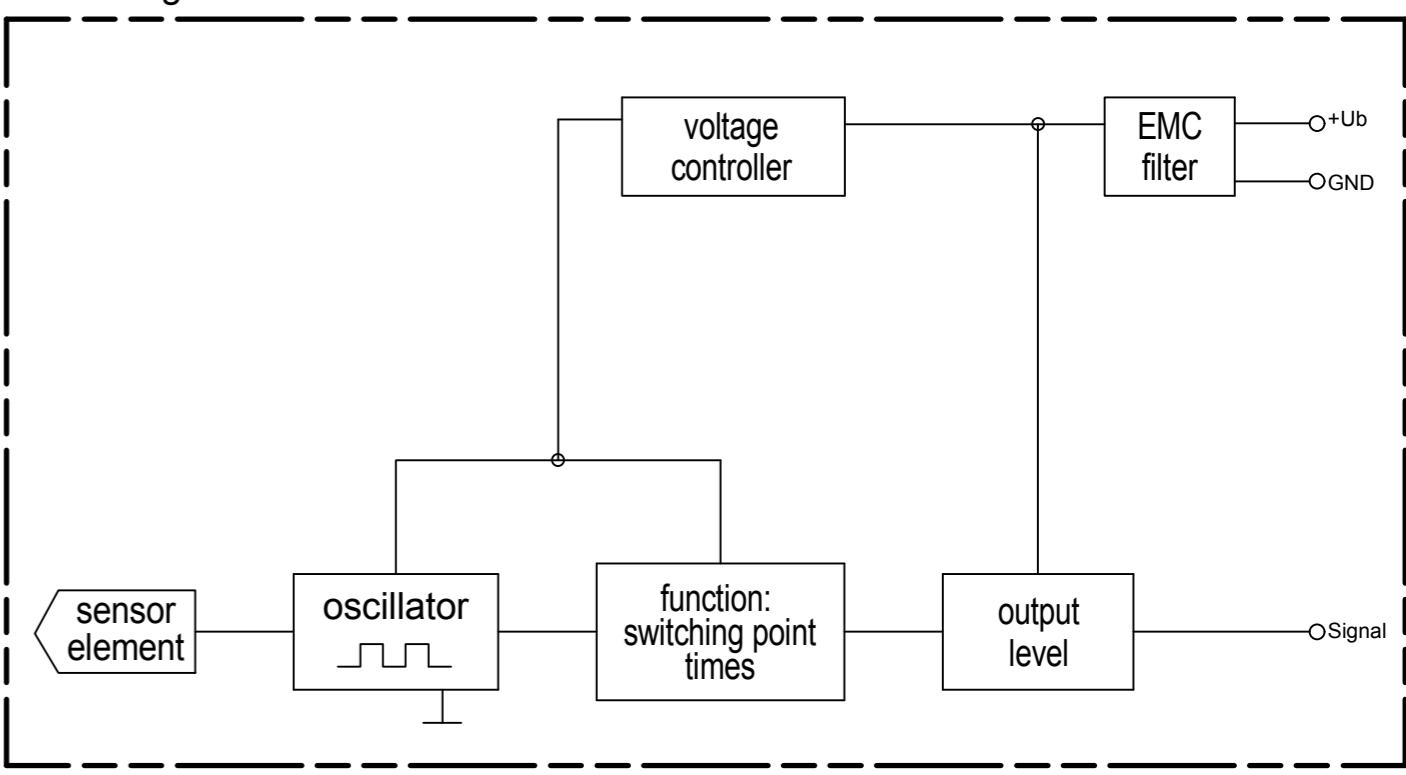
	11	10	9	8	7	6	5	4	3	2	1
Any non-compliance shall obligate the violator to compensate for damages. In case any patent is issued or utility model is registered, or in case of any other industrial property rights, all such rights must be reserved for us.											
BEDIA Motorentechnik GmbH & Co.KG, Altdorf bei Nürnberg											
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	cable										
Housing material	X5CrNi18 10 EN 10088-3:1.4301										
Probe coating	capacitive connected to ground										
Probe protection	Tefzel® ETFE										
Weight	IP 69K / IP 68 up to 30 m to DIN 40050										
Marking	approx. 520 g manufacturer; type; manufacturer 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	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.											
Approvals	ABS, BV, CCS, DNV, GL, KR, LR, NKK, RINA, RMRS										
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										
Flame retardant	DIN 75 200										
Pressure resistance	2,5 MPa (25 bar / 362,6 psi) (25°C / 77°F / 1 h)										
EMC											
Conducted emmission from the power port	CISPR 16 10 kHz - 30 MHz										
Electric field radiated emissions	CISPR 16 150 kHz - 2 GHz										
RF electromagnetic fields	EN 61000-4-3 1 MHz - 2 GHz; 100 V / m										
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%										
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	11	10	9	8	7	6	5	4	3	2	1



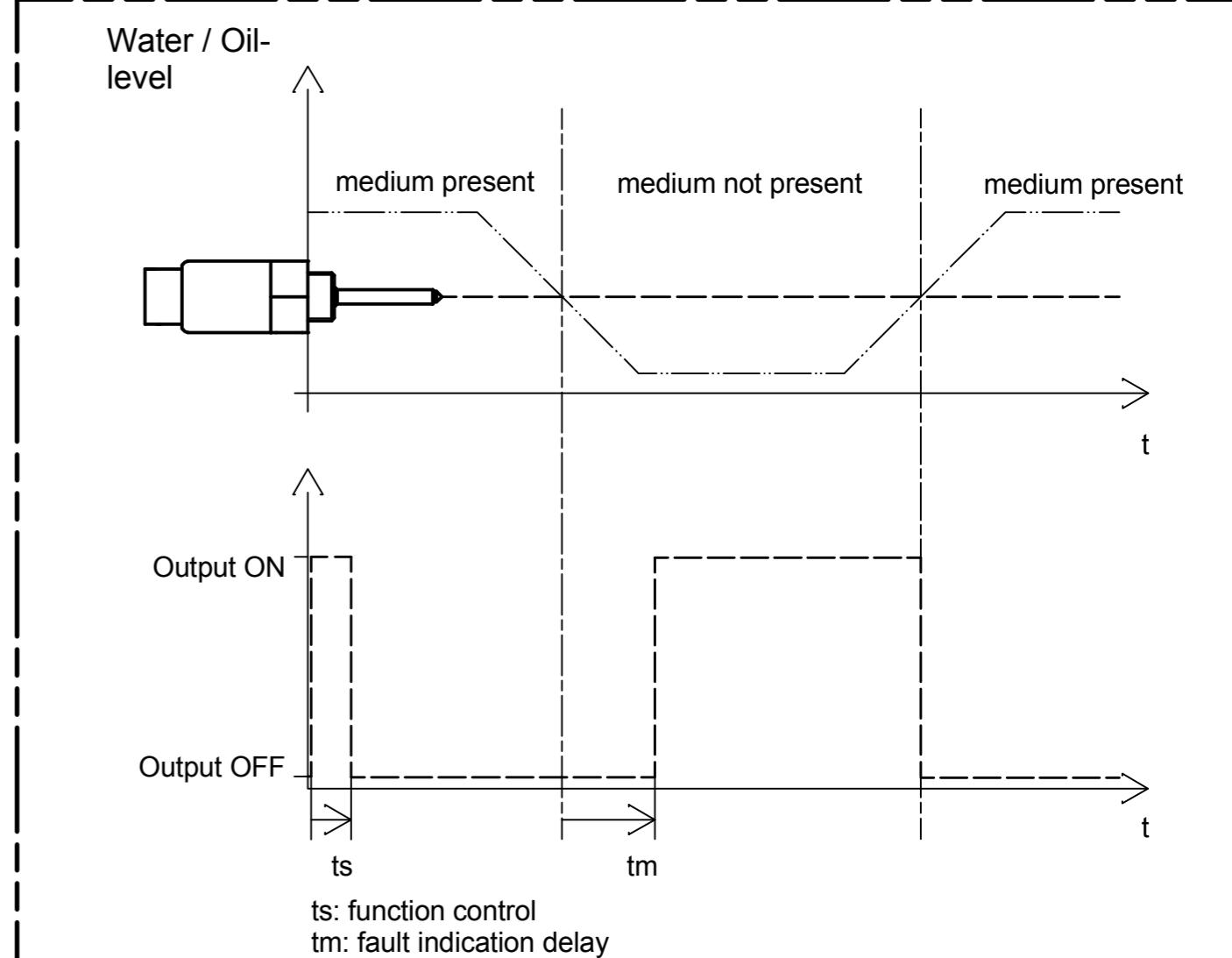
black = positive (+)
blue = negative (-)
brown = signal (S)



Block diagram



Functional diagram for MINIMUM Probes



field of application	admissible tolerance	surface	scale 1:1	position -	amount -
ISO2768-mK					
CLS-50 water level sensor low side switch - operating current with cable without connector					
drawing number	500028	sheet 1/1			
rev. modification	date	name/checked by			
drawing path: l:\CAD\500\500028US.idw					