Technical data

Medium	water, coolant
Function	maximum - 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	0 seconds ± 5%
Fault indication delay	0 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. 115 g
Marking	manufacturer; type; manufacturer no.; (a) SN; year / week; approval
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.

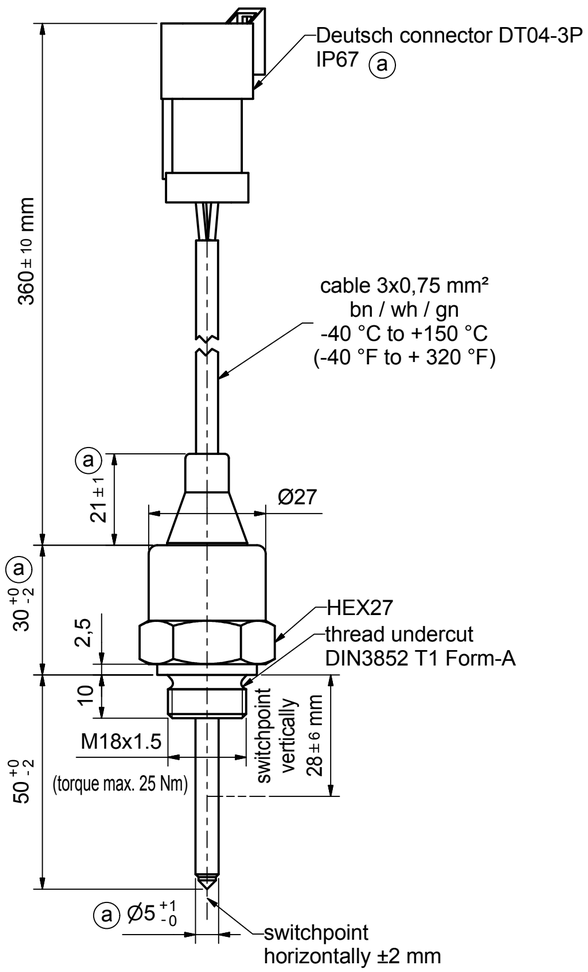
Approval	e1 035459
Customs tariff number	90261029

Environmental simulations

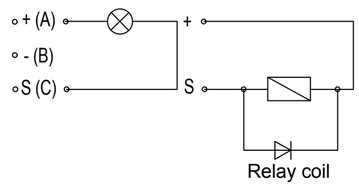
Vibration	ISO 16750-3:2007 10 Hz - 2000 Hz 20 g
Free Fall	IEC 16750
Mechanical Shock	DIN EN 60068-2-27:1995; 100 g / 11ms
Dry Cold	DIN EN 60068-2-1:2006; -40 °C / 24 h (-40 °F / 24 h)
Dry Heat	DIN EN 60068-2-2:2008; +125 °C / 96 h (+257 °F / 96 h)
Temperature cycling	DIN EN 60068-2-14:2000
Damp Heat	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

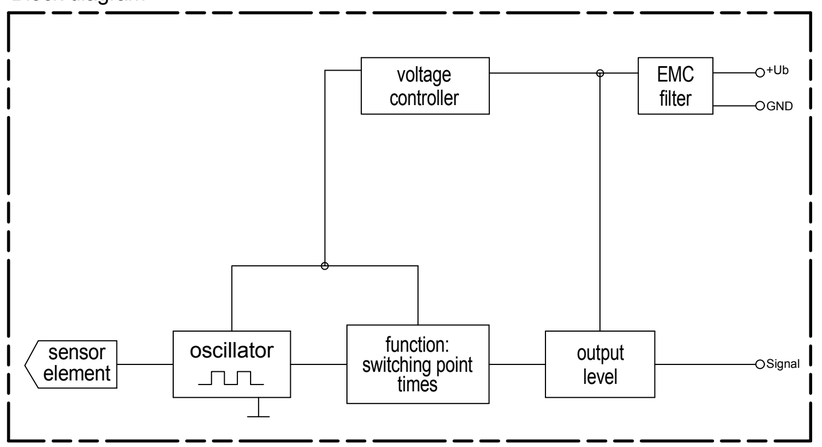
Radiated emission	2004/104/EG	30 MHz - 1 GHz; 1 m
Conducted transient emission	ISO 7637-2:2004	
Immunity to RF electromagnetic fields	ISO 11452-1/-2	1000 MHz - 2000 MHz; 150 V / m (rms)
Immunity to RF electromagnetic fields in the stripline	ISO 11452-1/-5	20 MHz - 1000 MHz; 150 V / m (rms)
Transient immunity test on power lines	ISO 7637-2/2004	Impulse 1, 2a, 2b, 3a, 3b, 4



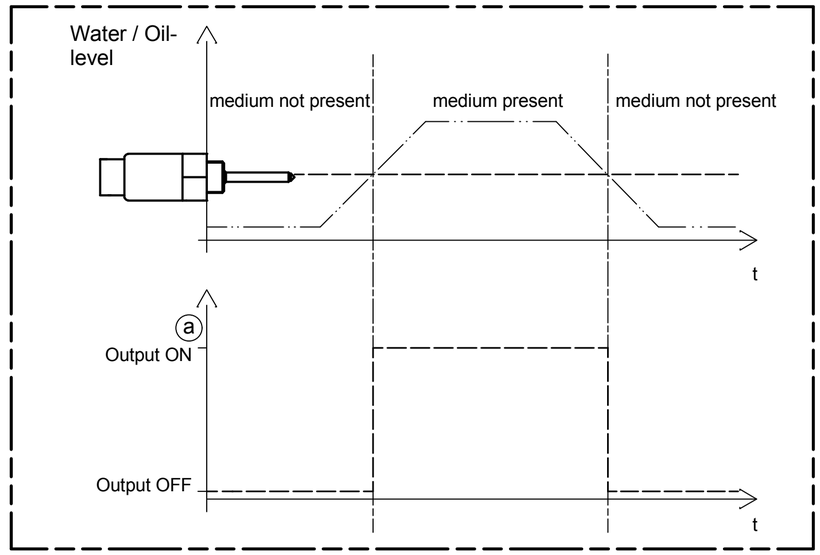
A = positive (+)
B = negative (-)
C = signal (S)



Block diagram



Functional diagram for MAXIMUM Probes



field of application			admissible tolerance		surface	scale 1:1	position – amount –
			ISO2768-mK				
				date	name	description	
			created by	10.08.2009	MoeMi	CLS-40 water level sensor	
			checked by	14.12.2009	SasCh	low side switch - operating current with Deutsch connector DT04-3P	
a	see drawing	27.01.12	MoeMi/SasCh	BEDIA®		drawing number 325036	sheet 1/1
rev.	modification	date	name/checked by			drawing path: I:\CAD\325\325036US.idw	