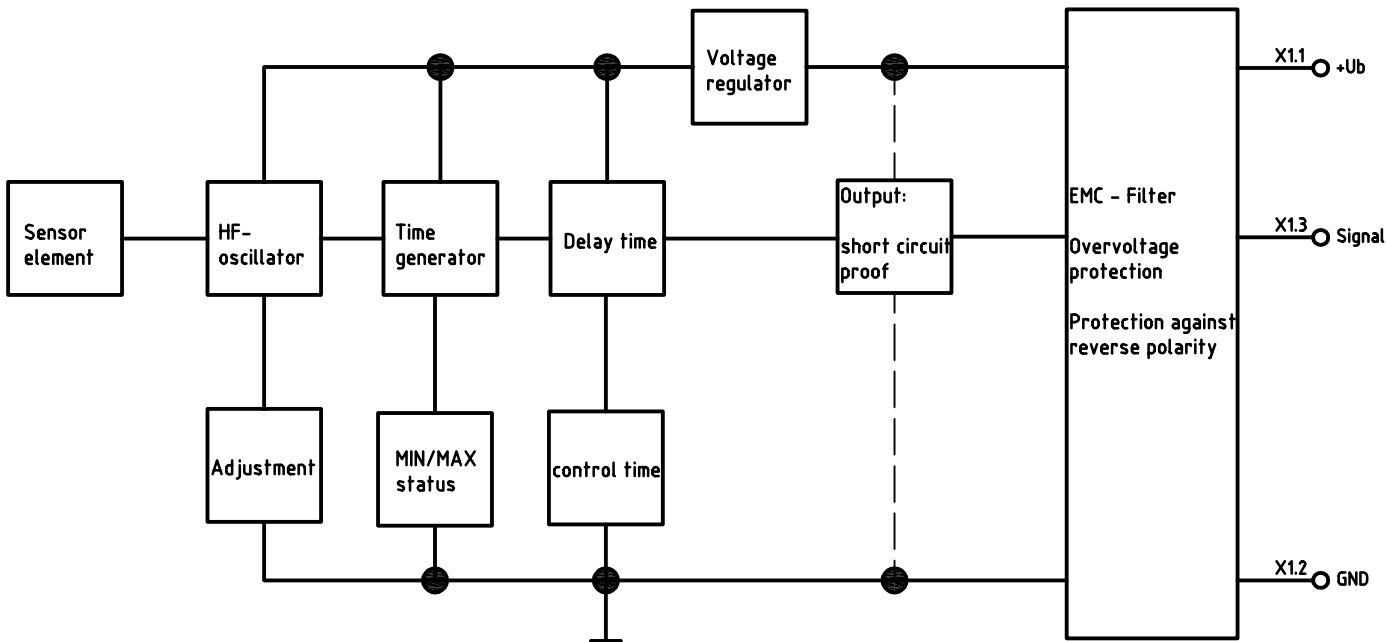


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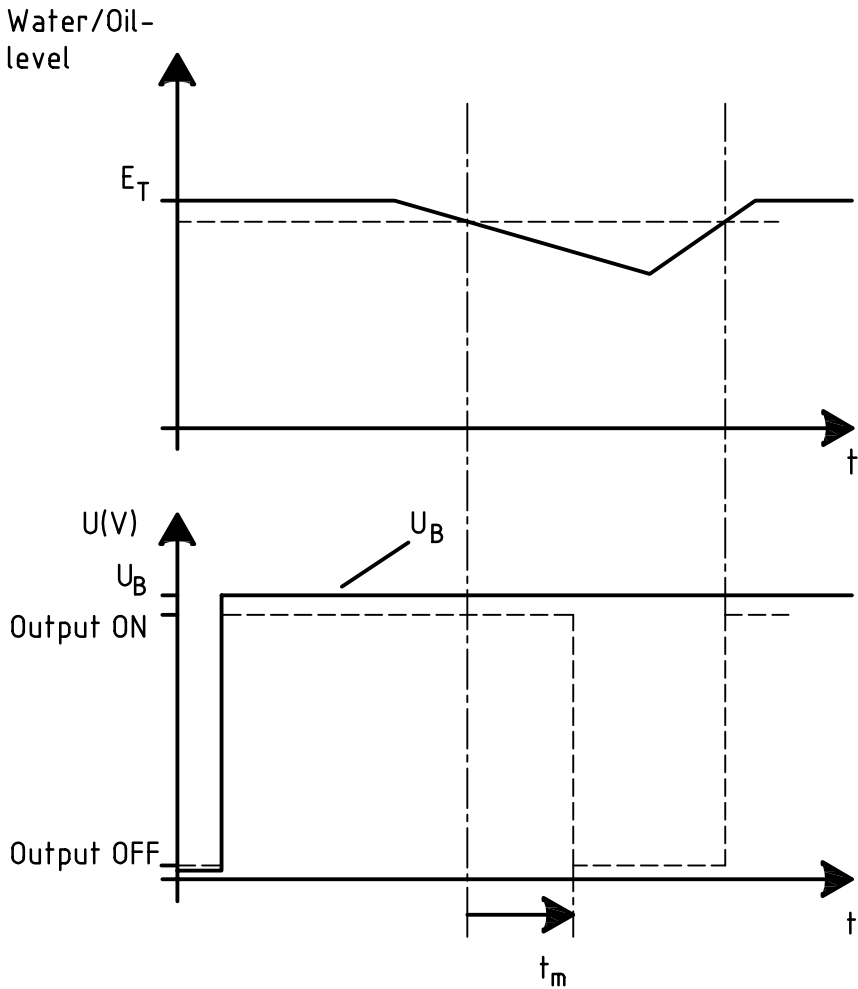
BEDIA Motorentechnik GmbH & Co. KG, Leinburg/Weißenbrunn

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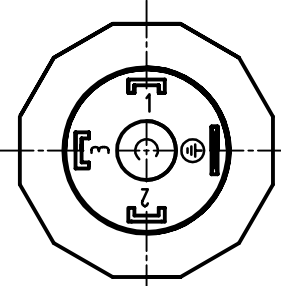
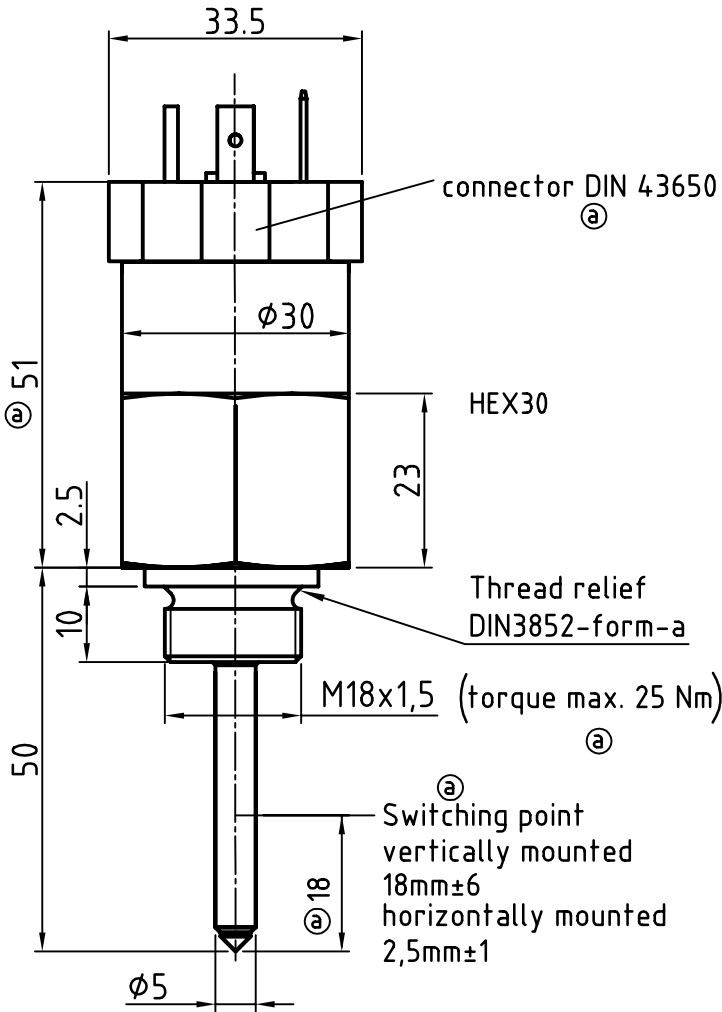
Block diagram



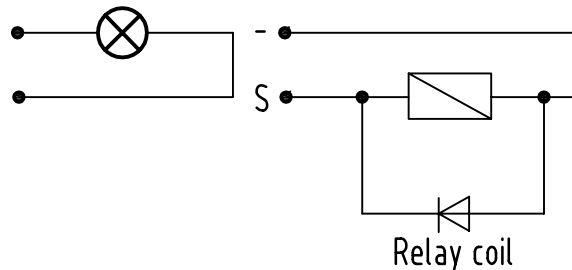
③ Functional diagram for MAXIMUM Probes



U_B : operating voltage
 E_T : immersion depth
 t_m : fault indication delay



- + (1)
- - (2)
- S (3)



field of application				admissible tolerance		surface	scale 1:1	position -	amount -
				ISO 2768-mK		galv. nickel plated	-	-	-
				created by	18.07.2002	Möderer	description ③ PLCA-50 quiescent current - high side switch - water level-sensor with connector DIN 43650		
				checked by	18.07.2002	Zibes			
							drawing number		
							5041022411		
							sheet 1/2		
a	see drawing	24.01.05	Möderer/Zibes				drawing path: \\CADI\504\5041022411US.dwg		
rev.	modification	date	name/checked by						

4				3				2				1							
Technical description for max level sensors high side switch																			
with approvals :																			
ABS, BV, CCS, DNV, GL, KR, LR, NKK, RINA, RS																			
Voltage rating																			
Current consumption																			
Signal output switching capacity																			
TU = 25 °C																			
DC 12/24 V (-25% / +30%)																			
typ. 8 mA																			
12 W / 12 V; 24 W / 24 V																			
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.																			
Switch point vertically mounted																			
Switch point horizontally mounted																			
Switch point hysteresis																			
Medium temperature																			
Ambient temperature																			
Storage temperature																			
Fault indication delay																			
Function test																			
③Function																			
Reverse polarity protection																			
③ quiescent current (rc)																			
in-built, between plus and minus terminal																			
Caution !!																			
With high-side switching sensors do not connect plus potential to signal terminal and minus potential to plus terminal.																			
Voltage drop																			
Overvoltage protection																			
< 300mV / 1A																			
limits the voltage to approx. 40 V. (suppression diode)																			
Vibration																			
IEC 68-2-6 2 - 25Hz × 1,6mm Amplitude																			
25 - 100 Hz 4g																			
Pressure resistance																			
Degree of protection																			
Mounting attitude																			
Housing																			
Material																			
Probe coating																			
Mass																			
Mounting thread																			
③Connection turning moment																			
Marking																			
③ max. 25Nm																			
③ manufacturer; manufacturer number; date: year/ calendar week																			
approvals; function; pin assignment																			
EMC																			
Electrostatic discharge																			
IEC 1000-4-2 8kV air discharge																			
6kV contact discharge																			
Radiated electro-magnetic fields																			
IEC 1000-4-3 10 V/m; 27 MHz to 1000 Mhz																			
80% AM (1kHz)																			
Burst																			
IEC 1000-4-4 2 kV power supply																			
1 kV signal output																			
Surge																			
IEC 1000-4-5 1 kV, diff. mode: power supply																			
2 kV, common mode: power supply																			
2 kV, common mode: signal output																			
Conducted high frequency																			
IEC 1000-4-6 3 V; 10 kHz to 80 Mhz																			
80% AM (1kHz)																			
Conducted low frequency																			
IEC 945 3 V rms; 50 Hz to 10 kHz																			
CE-marking to EC-directive 89/336/EWG (EMC - directive)																			
field of application				admissible tolerance				surface				scale 1:1				position - amount -			

