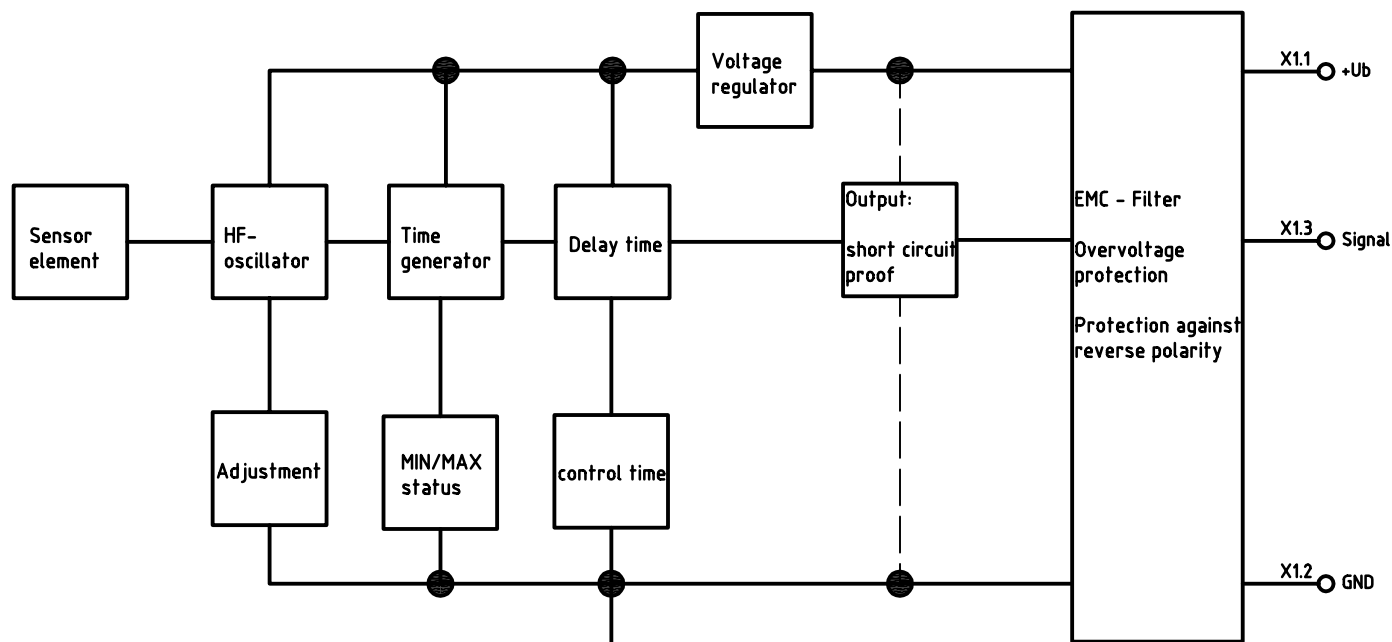


Any non-compliance shall obligate the violator to compensate for damages. In case any patent is issued or a utility model is registered, or in case of any other industrial property rights, all such rights must be reserved for us.

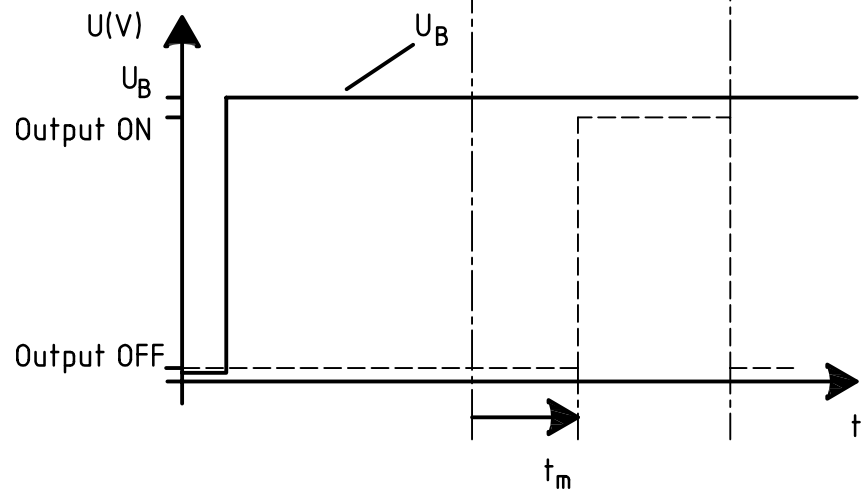
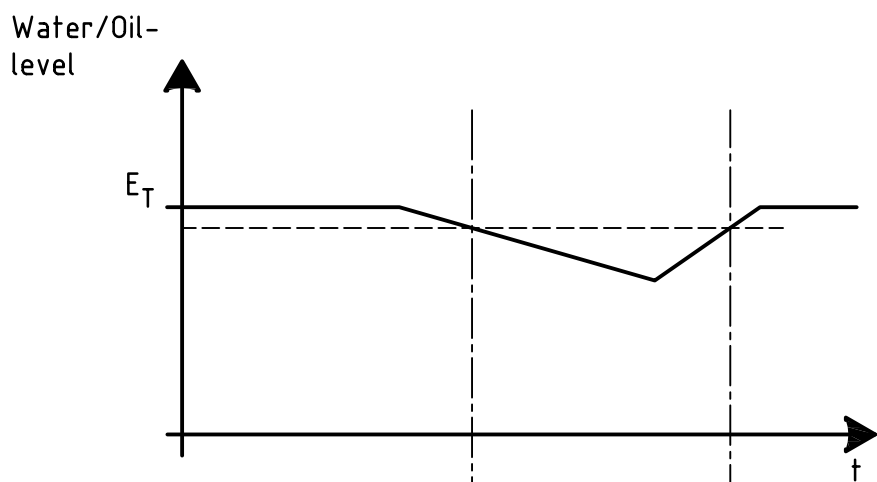
BEDIA Motorentechnik GmbH & Co. KG, Leinburg/Weißenbrunn

The copyright to this drawing belongs to us. No duplication or transfer to, providing access to or communicating to any third parties is allowed of its contents or excerpts thereof. This drawing may not be used without our approval for any purpose other than that for which it has been entrusted to the recipient.

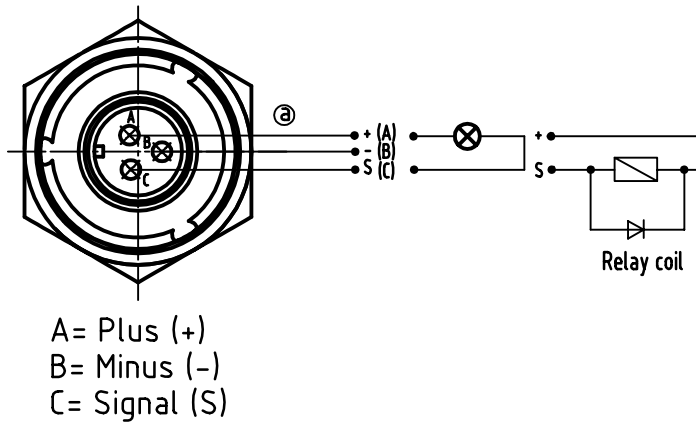
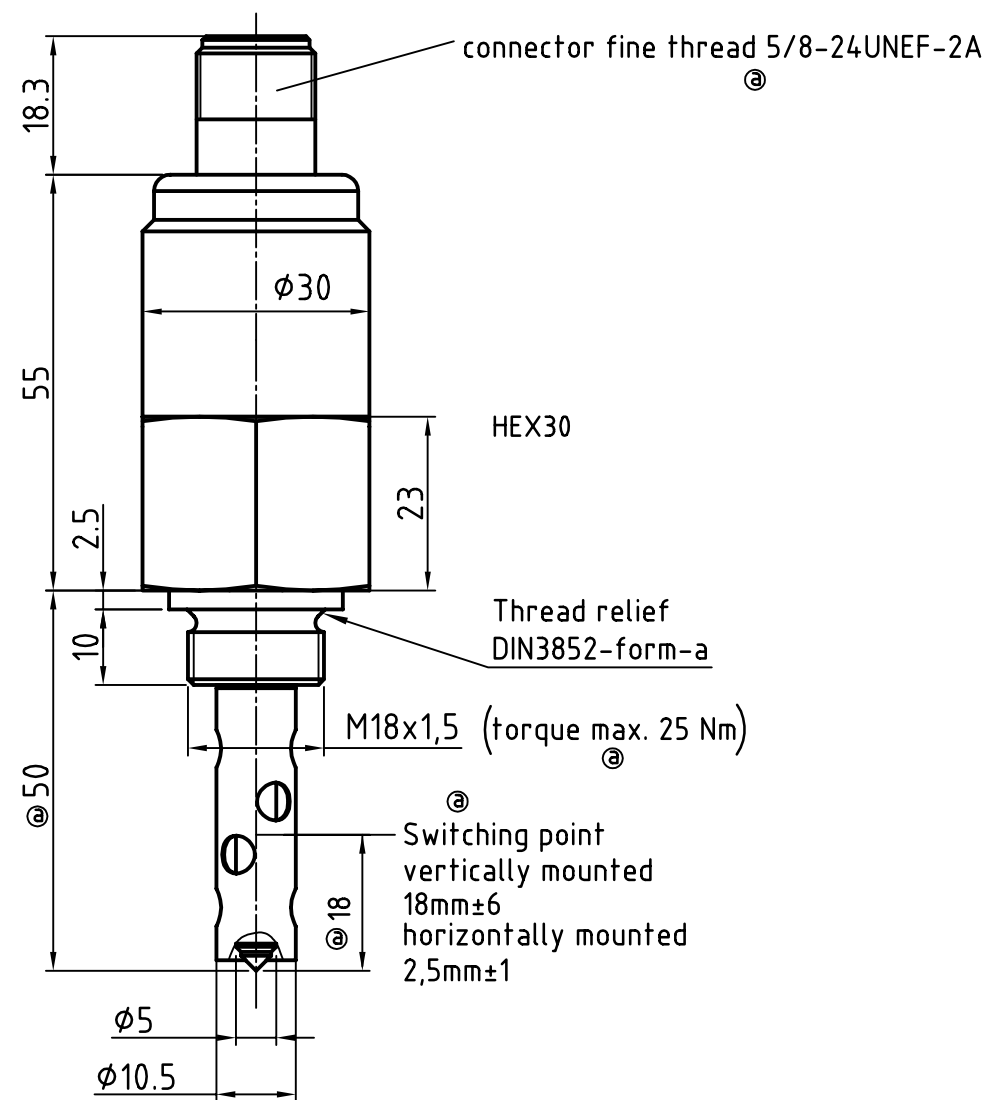
Block diagram



© Functional diagram for MAXIMUM Probes



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



field of application	admissible tolerance	surface	scale 1:1	position -	amount -
	ISO 2768-mK	galv. nickel plated	-	-	-
	date	name	description		
	created by 08.04.2002	Möderer	PLCA-50 operating current - low side switch - oil level-sensor		
	checked by 08.04.2002	Zibes	with connector fine thread 5/8-24UNEF-2A		
			drawing number	sheet	
			5022021211	1/2	
a see drawing	22.09.05	Möderer/Zibes	drawing path: \\FCAD\50215022021211\US.dwg		
rev. modification	date	name/checked by			



Technical description for max level sensors low side switch

with approvals :

ABS, BV, CCS, DNV, GL, KR, LR, NKK, RINA, RS

Voltage rating	TU = 25 °C DC 12/24 V ( -25% / +30% )
Current consumption	typ. 8 mA
Signal output switching capacity	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	18mm ± 6mm
Switch point horizontally mounted	2,5mm ± 1mm
Switch point hysteresis	typ. < 3mm
Medium temperature	-30°C to +125°C
Ambient temperature	-30°C to +125°C
Storage temperature	-50°C to +125°C
Fault indication delay	7 seconds
Function test	0 seconds
Function	operating current (oc)
Reverse polarity protection	in-built, between plus and minus terminal

**Caution !!**  
With low-side switching sensors do not connect minus potential to signal terminal and plus potential to minus terminal.

Voltage drop < 300mV / 1A  
Overvoltage protection 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 25 x 105 Pa ( 25bar = 367,5 PSI )  
Degree of protection IP 67 to DIN40050  
Mounting attitude optional  
Housing capacitively connected to ground  
Material brass - CuZn38Pb2 galvanic nickel plated  
Probe coating Tefzel® ETFE  
Mass approx. 180g  
Mounting thread M18 x 1.5

- ⓐ Connection turning moment ⓐ max. 25Nm
- ⓐ Marking ⓐ 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 -
-	-	-	-	-
	date	name	description	
	created by 08.04.2002	Möderer	PLCA-50 operating current - low side switch - oil level-sensor with connector fine thread 5/8-24NEF-2A	
	checked by 08.04.2002	Zibes		
			drawing number	sheet
			5022021211	2/2
a see data	22.09.05	Möderer/Zibes	drawing path: F:\CAD\502\5022021211\5_2.dwg	
rev. modification	date	name/checked by		

