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Mechanical Data

Housing: rust-proof, not magnetical
Mounting thread: M18x1,5 torque max. 30Nm
Washer: 18x22 DIN7603 – Cu (not be supplied)
Connector: CuZn38Pb2; EN12164, CW608N
Fitting: bayonet 10SL-3PN-VG 95 234
Probe coating: TEFZEL ETFE
Marking: function, type and serial number, data: year/week, Customer part number, tech. Data

Mounting position: optional
Switch point: vertically mounted 3mm ± 2mm
horizontally mounted 20mm ± 6mm

Switch point hysteresis: ca. 2mm
Weight: 200g
Ambient temperature: -30°C to + 125°C
Storage temperature: -55°C to + 125°C
Medium temperature: -30°C to + 125°C
Vibration: 2 – 25 Hz 1.6mm amplitude
25 – 420 Hz 4g
420 – 1330 Hz 5g
1330 – 2700 Hz 10g
2700 – 5000 Hz 25g
to 100%

Air humidity: to 100%

Environmental conditions

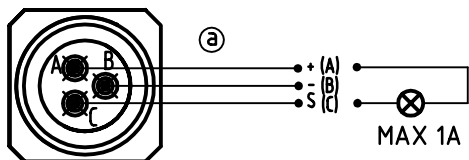
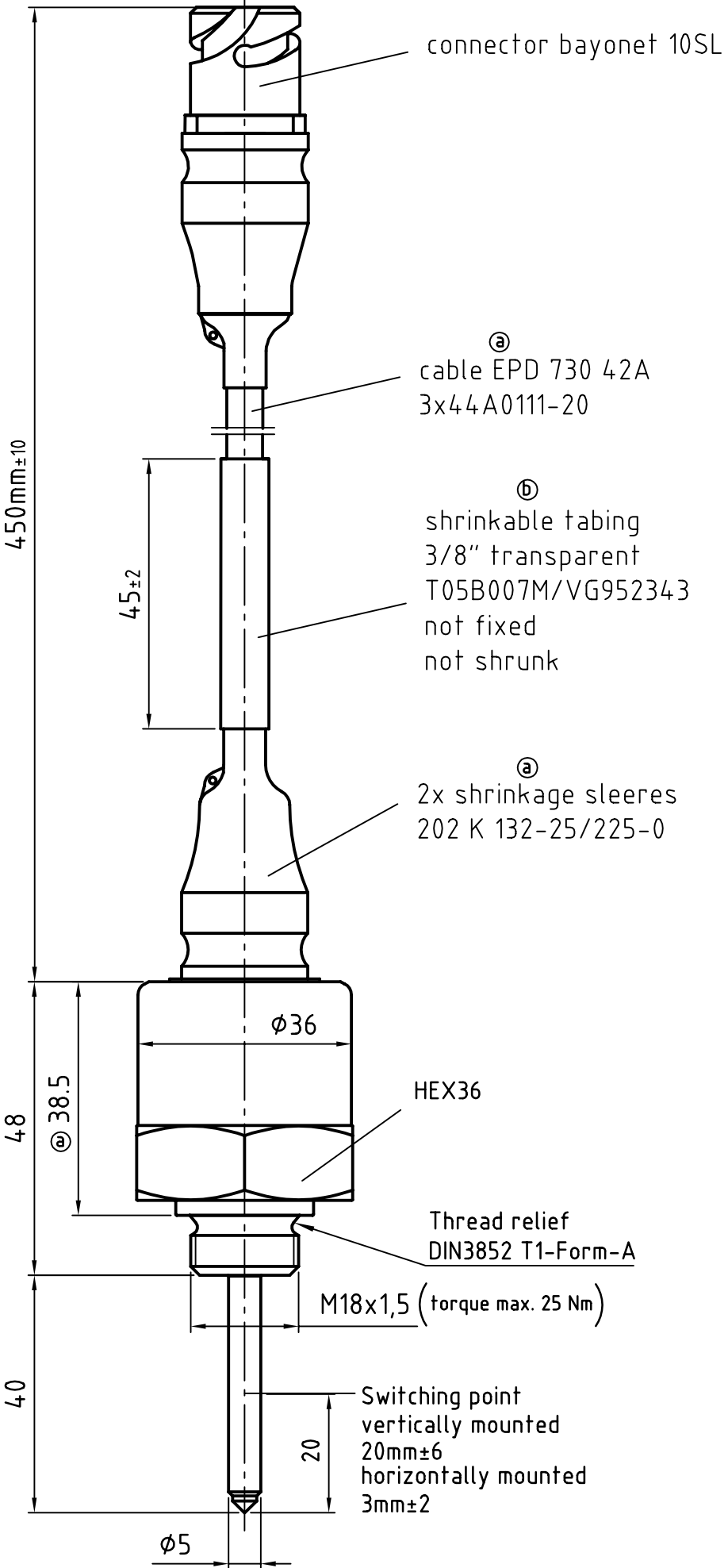
Shock resistance: semi-sinusoidal shock 50g / 11ms
EMC IEC 801 (1-4) <500mV
EMC to VG 95373: only with external filter
Interference-free: VDE 0871-B
Resistance to pressure: max. 10 bar
Environmental protection: IP 67 to DIN40050
Measuring Medium: Water, coolant, saltwater
Coolant additives: max. 50% antifreeze
max. 5% anti-corrosion agent

Operational safety: The function is not impaired by small deposits at the probe.

Electric Data

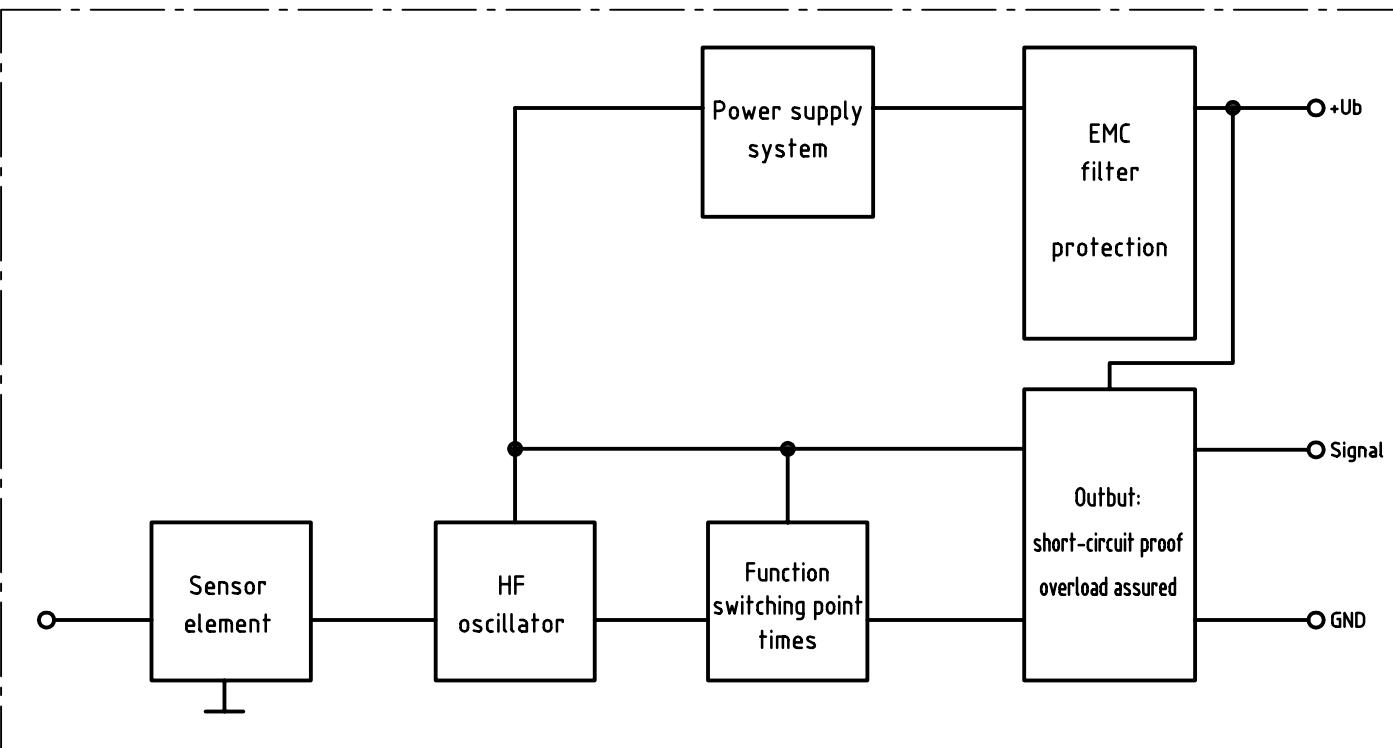
Operating voltage: 12V and 24V (9 – 36V)
Output: open Collector, high side switch
Current consumption: < 10 mA
Quiescent current: quiescent current + switching current
Signal output switching current: 1A over the whole operating voltage range
Short-circuit proof: Pin C against Pin A (+) and Pin B (-)
Reverse polarity protection: in built, between plus and minus terminal
Voltage spikes: 70V dropping to Un in 270 ns
Switch point hysteresis: max. 5mm
Function indication delay level ok: typ 1 sec.
Function indication delay level fault: typ. 3 sec.
Break time: <2 sec.
Function test: max. 5 sec.
Pin Assignment: A = +, B = -, C = Signal
Housing potential: DC-isolated + Ub and - Ub
Dielectric strength: VDE 0 100.500 VDC, 1min.
Dielectric properties: VDE 0160,500 VAC/ 50 Hz, 1min.
Insulation resistance > 10 M Ohm

Through connection voltage: < 0,5

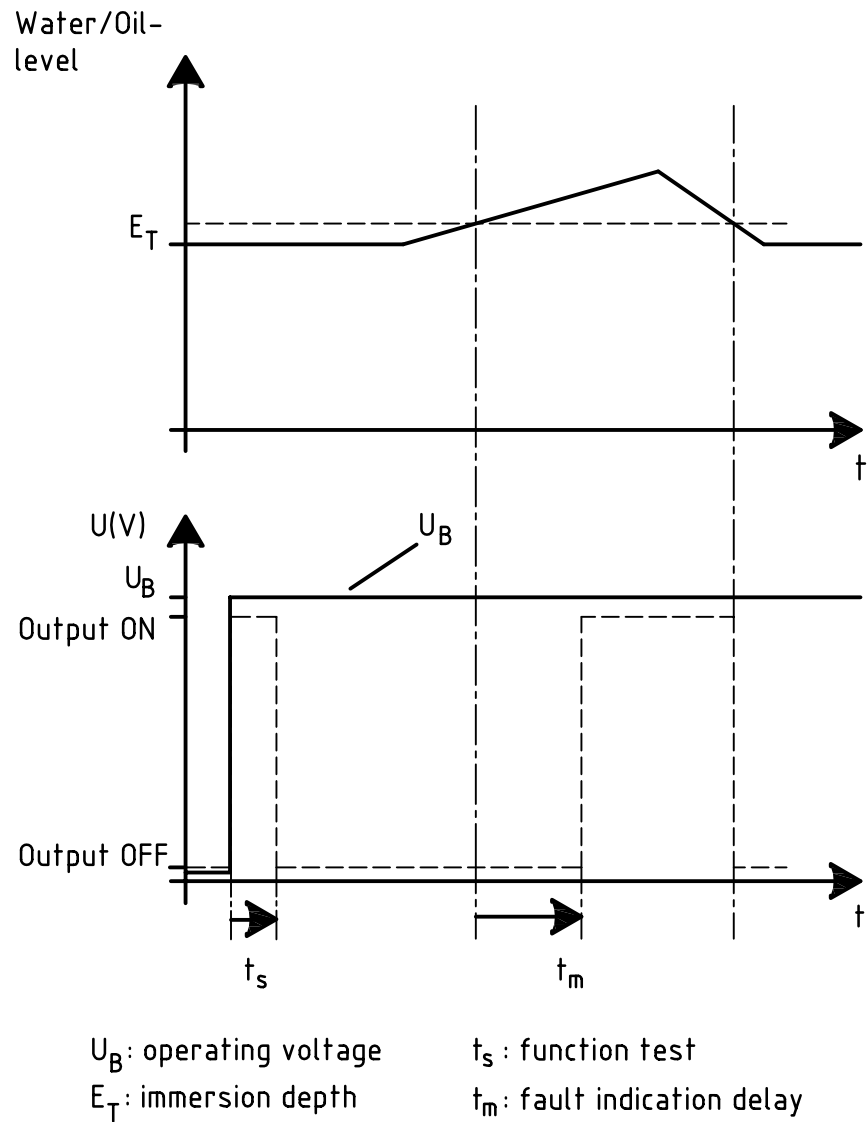


Minus switching probes: Do not connect minus potential to the signal terminal and plus potential to the minus terminal, as otherwise the probes may be destroyed.

② Block diagram



③ Functional diagram for MINIMUM Probes



field of application				admissible tolerance		surface	scale 1:1	position	amount
				ISO 2768-vK		-	-	-	-
				date	name	description			
				created by 13.06.2002	Möderer	PLS-30 operating current - low side switch - water level sensor with cable and connector bayonet 10SL			
				checked by 13.06.2002	Zibes				
b	revised	04.07.06	Möderer/Zibes			drawing number			
a	see design	15.10-02	Möderer/Zibes			421960			
rev.	modification	date	name/checked by			drawing path: \\ACAD\421960\US.dwg			