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BEDIA Motorentechnik GmbH & Co.KG, Aitdorf bei Nürnberg

Technical data

Medium oil
 Function maximum - operating current (oc)
 Operating voltage 12 / 24 V (-25% / +50%) (9 - 36 VDC)
 Current consumption < 8 mA
 Output high 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 7/8" UNF
 Function control 0 seconds ± 5%
 Fault indication delay 0 seconds ± 5%
 Connection connector DEUTSCH 3-pole
 Housing material CuZn38Pb2
 EN12164; CW608N
 capacitive connected to ground
 Probe coating Tefzel® ETFE
 Probe protection IP 67 to DIN40050 with mounted mating connector
 Weight approx. 115 g
 Marking manufacturer; type; manufacturer no.; SN; year / week; approval
 Switch point hysteresis < 3 mm
 Reference medium paraffin oil, $\epsilon_r = 2,0..2,4$, for switchpoint adjustment
 Medium temperature -40 °C to +150 °C (-40 °F to +302 °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 positive potential to signal terminal of the sensor and negative potential to positive terminal of the sensor.

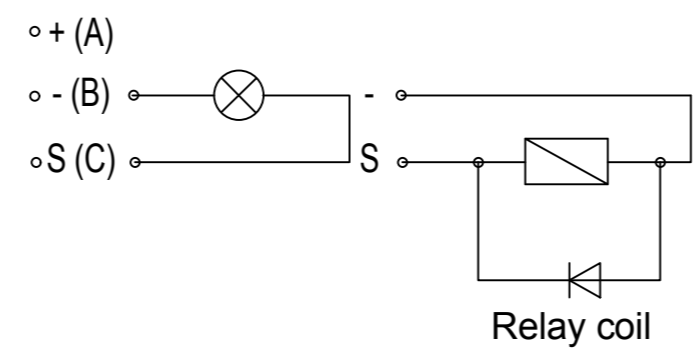
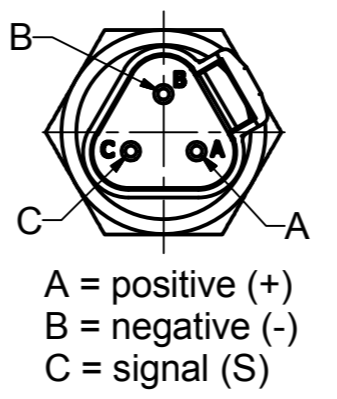
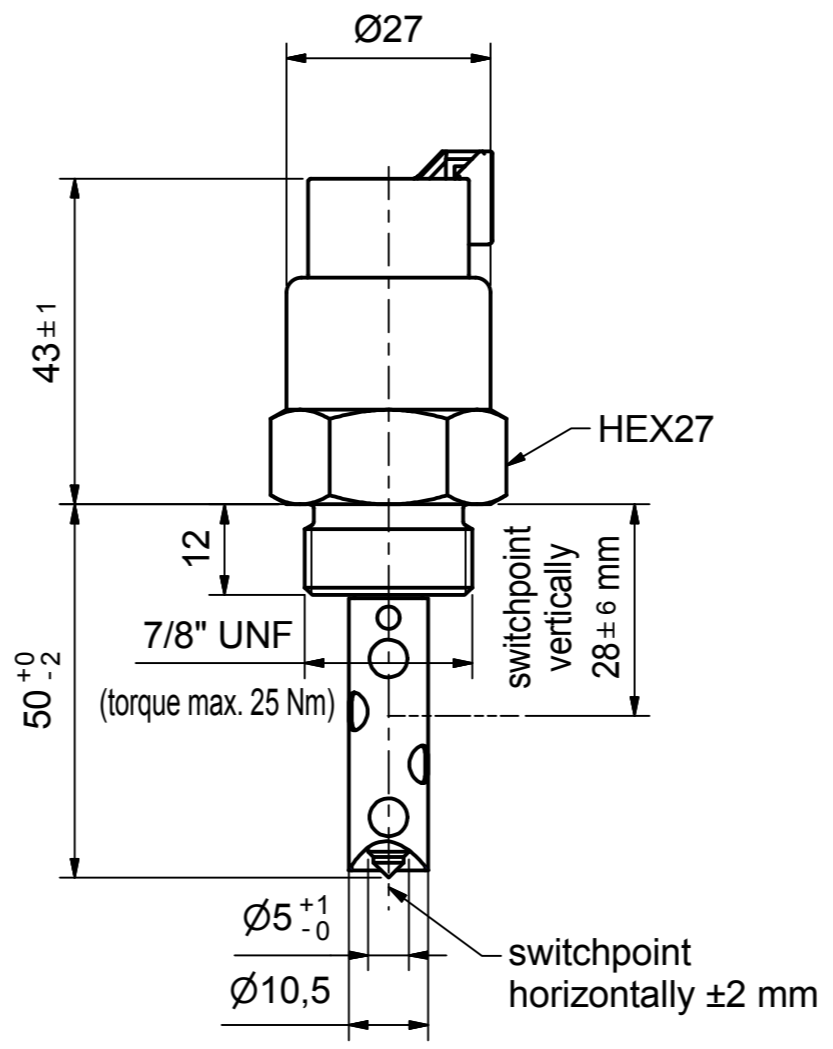
Approval e1
 035459
 Customs tariff number 90261029

Environmental simulations

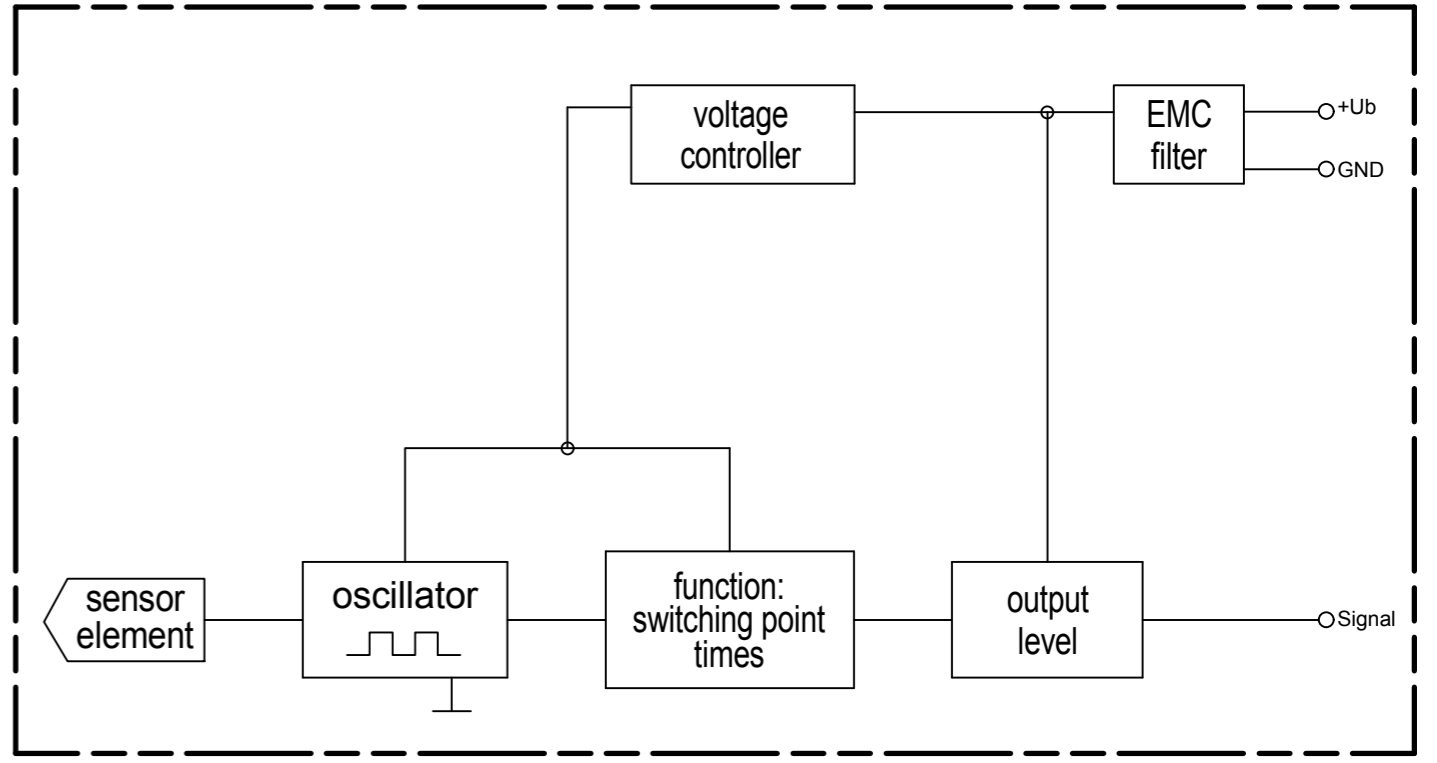
Vibration ISO 16750-3:2007 10 Hz - 2000 Hz 20 g
 Free Fall IEC 16750
 Mechanical Shock DIN EN 60068-2-27:1995; 100 g / 11ms
 Dry Cold DIN EN 60068-2-1:2006; -40 °C / 24 h (-40 °F / 24 h)
 Dry Heat DIN EN 60068-2-2:2008; +125 °C / 96 h (+257 °F / 96 h)
 Temperature cycling DIN EN 60068-2-14:2000
 Damp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

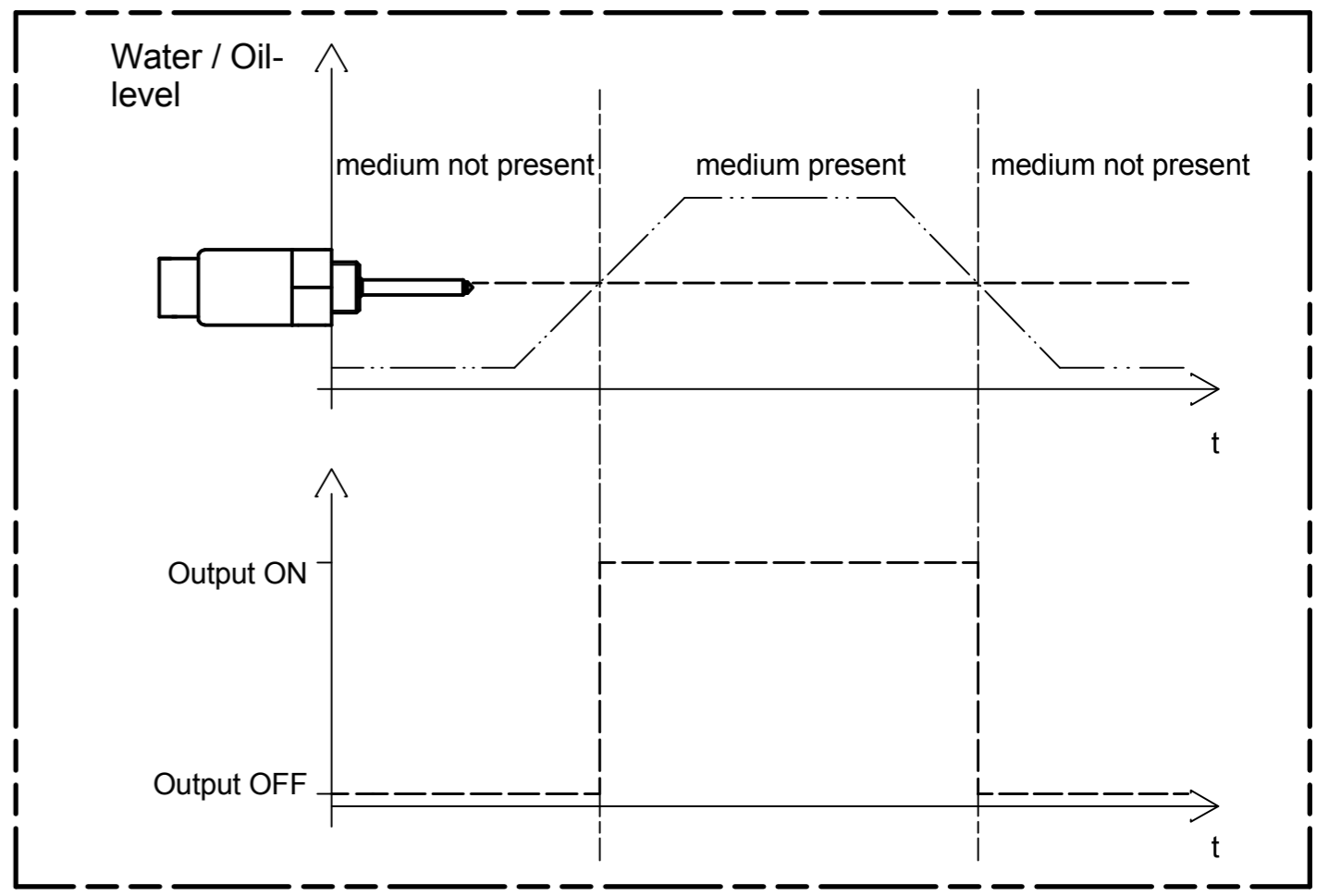
Radiated emission 2004/104/EG 30 MHz - 1 GHz; 1 m
 Conducted transient emission ISO 7637-2:2004
 Immunity to RF electromagnetic fields ISO 11452-1/-2 1000 MHz - 2000 MHz; 150 V / m (rms)
 Immunity to RF electromagnetic fields in the stripline ISO 11452-1/-5 20 MHz - 1000 MHz; 150 V / m (rms)
 Transient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



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 21.10.2011	MoeMi	CLS-40 oil level sensor high side switch - operating current with connector DEUTSCH 3-pole		
	checked by 24.10.2011	SasCh			
			drawing number	sheet	
			350182	1/1	
rev.	modification	date	name/checked by	drawing path: I:\CAD\350\350182\US.sldw	