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BEDIA Motorentechnik GmbH & Co.KG, Altdorf bei Nürnberg

Technical data

Medium	water, coolant
Function	minimum - operating current (oc)
Operating voltage	12 / 24 V (-25% / +50%) (9 - 36 VDC)
Current consumption	typ. < 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	M18x1.5
Function control	2 seconds ± 5%
Fault indication delay	7 seconds ± 5%
Connection	connector bayonet 16S
Housing material	CuZn38Pb2 EN12164; CW608N capacitive connected to ground
Probe coating	Tefzel® ETFE
Probe protection	IP 67 to DIN40050
Weight	approx. 95 g
Marking	manufacturer; type; manufacturer no.; SN; year / week; approval
Switch point hysteresis	typ. < 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 positive potential to signal terminal of the sensor and negative potential to positive terminal of the sensor.

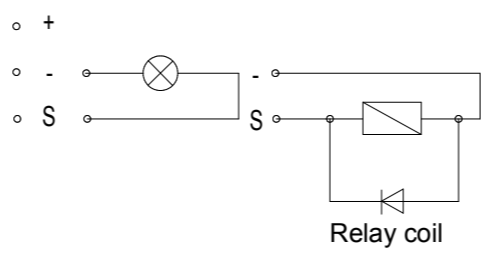
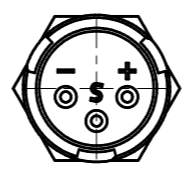
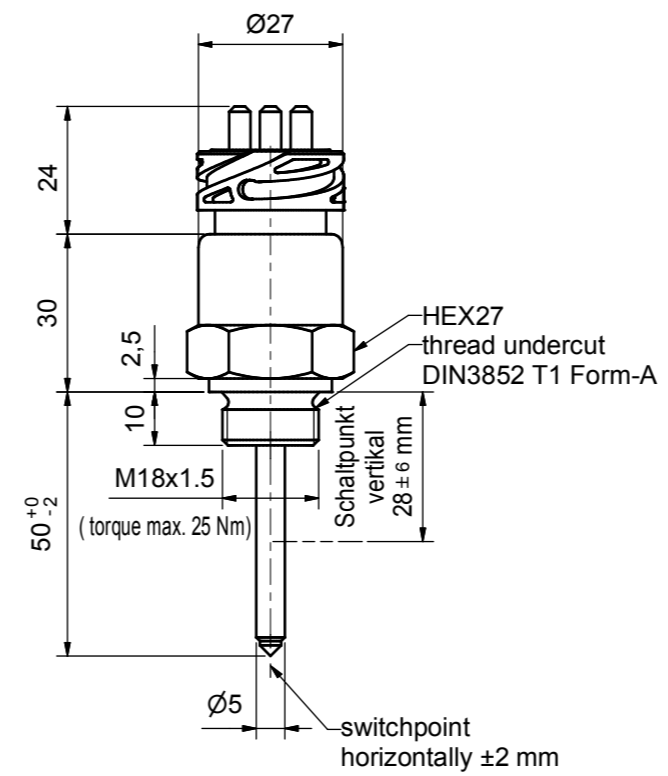
Approval	e1
	035459
Customs tariff number	90261029

Environmental simulations

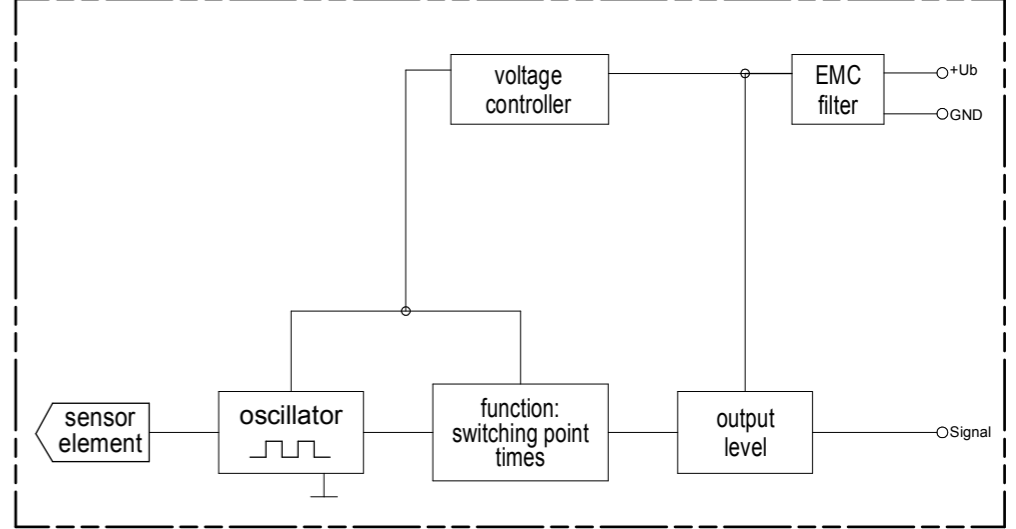
Vibration	ISO 16750-3:2007	10 Hz - 2000 Hz 20 g
Free Fall	IEC 16750	
Mechanical Shock	DIN EN 60068-2-27:1995;	100 g / 11ms
Dry Cold	DIN EN 60068-2-1:2006;	-40 °C / 24 h (-40 °F / 24 h)
Dry Heat	DIN EN 60068-2-2:2008;	+125 °C / 96 h (+257 °F / 96 h)
Temperature cycling	DIN EN 60068-2-14:2000	
Damp Heat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

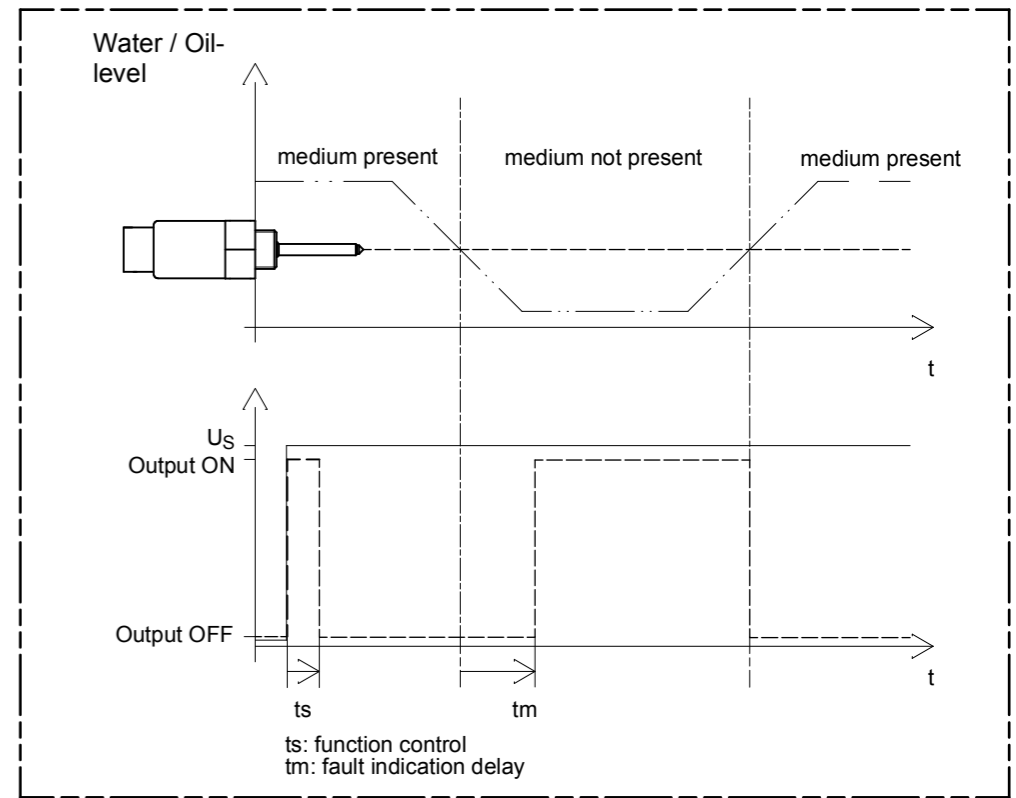
Radiated emission	2004/104/EG	30 MHz - 1 GHz; 1 m
Conducted transient emission	ISO 7637-2:2004	
Immunity to RF electromagnetic fields	ISO 11452-1/-2	1000 MHz - 2000 MHz; 150 V / m (rms)
Immunity to RF electromagnetic fields in the stripline	ISO 11452-1/-5	20 MHz - 1000 MHz; 150 V / m (rms)
Transient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



Block diagram



Functional diagram for MINIMUM Probes



field of application	admissible tolerance	surface	scale 1:1	position -	amount -
	ISO2768-vK				
date	name	description			
created by 06.03.2009	MoeMi	CLS-40 water level sensor high side switch - operating current with connector bayonet 16S			
checked by 06.07.2010	StaRo				
drawing number		sheet			
BEDIA® 325006		1/1			
rev.	modification	date	name/checked by	drawing path: I:\CAD\325006\325006US.dwg	