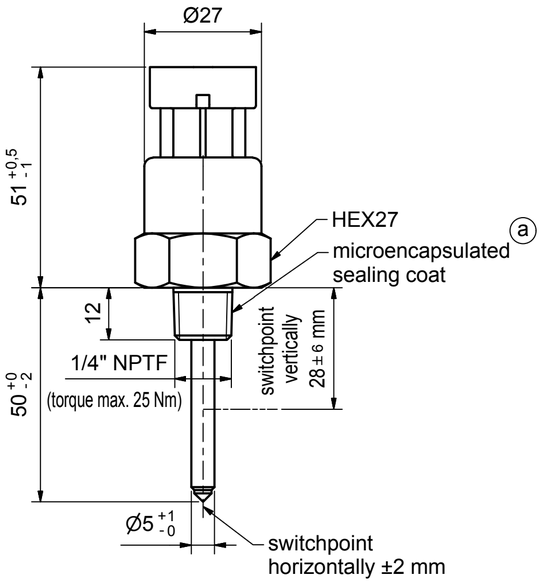
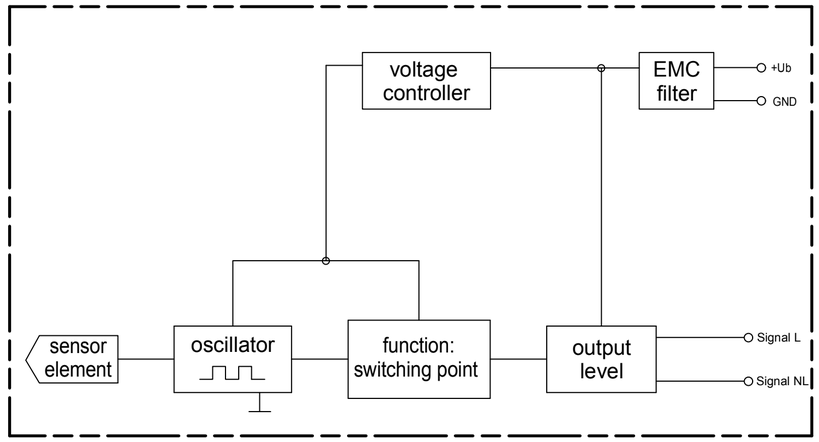
BEDIA Motorentechnik GmbH & Co.KG,
Altdorf bei Nürnberg

Technical data

Medium	water, coolant
Operating voltage	4,75 V - 32 V
Current consumption	< 10 mA
Output L	0,5 V max. no medium
	5 V ±0,25 V medium detected ($U_S \geq 7$ V)
	4 V min. medium detected (5 V < U_S < 7 V)
Output NL	5 V ±0,25 V no medium ($U_S \geq 7$ V)
	4 V min. no medium (5 V < U_S < 7 V)
	0,5 V max. medium detected
	source and sink current max. 10 mA
	short - circuit - proof against ground
Mounting thread	1/4" NPTF
Connection	Packard connector 4-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. 90 g
Marking	manufacturer; type; manufacturer no.;
	SN; year / week
Switch point hysteresis	< 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

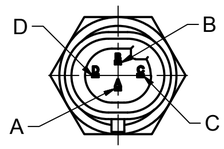


Block diagram



Caution !!
Do not connect negative potential to one of the signal terminals of the sensor and positive potential to negative terminal of the sensor.

Customs tariff number 90261029



A = output NL
B = negative (-)
C = positive (+)
D = output L

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 / 11 ms	
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

Immunity to RF electromagnetic fields	ISO 11452-1/-2	1000 MHz - 2000 MHz; 30 V / m (rms)	in test
Immunity to RF electromagnetic fields in the stripline	ISO 11452-1/-5	20 MHz - 1000 MHz; 60 V / m (rms)	in test
Transient immunity test on power lines	ISO 7637-2/2004	Impulse 1, 2a, 2b, 3a, 3b, 4	in test

Zust. / rev.	Änderung/modification	Datum/date	Name/Geprüft checked by
a	microencapsulated sealing coat	27.01.16	Möderer/Carreras

Zul. Abweichung / admissible tolerance: ISO2768-mK
Oberfläche / surface: -
Maßstab / scale: 1:1
Sprache / language: ENU
Blatt / sheet: 1 /1

	Datum / date	Name / name
Erstellt / created by	10.09.2015	Möderer
Geprüft / checked by	10.09.2015	Saß

Format / Size: A2
Maßeinheit / dimension unit in [mm]

Benennung / description
CLS-10 water level sensor
two complementary CMOS outputs with Packard connector 4-pole

Zeichnungsnummer / drawing number: 360002
Zng. Art/ drw.type: DRC