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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

Caution !!

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

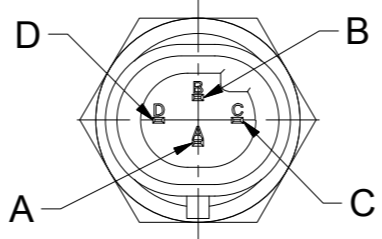
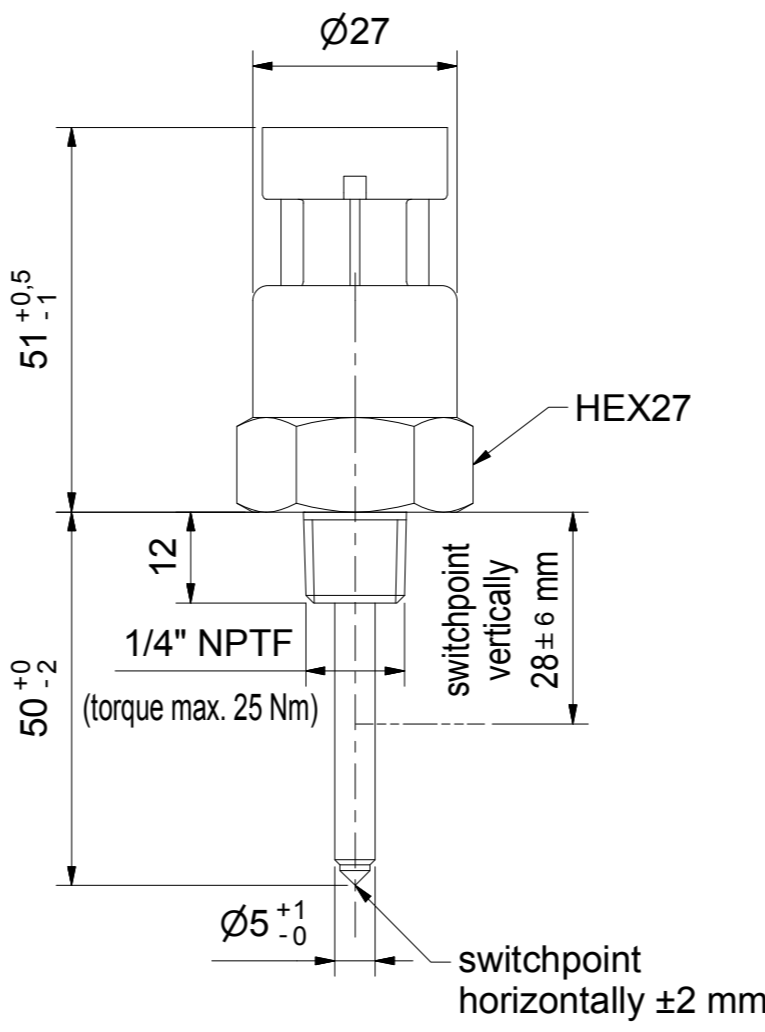
Customs tariff number 90261029

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)

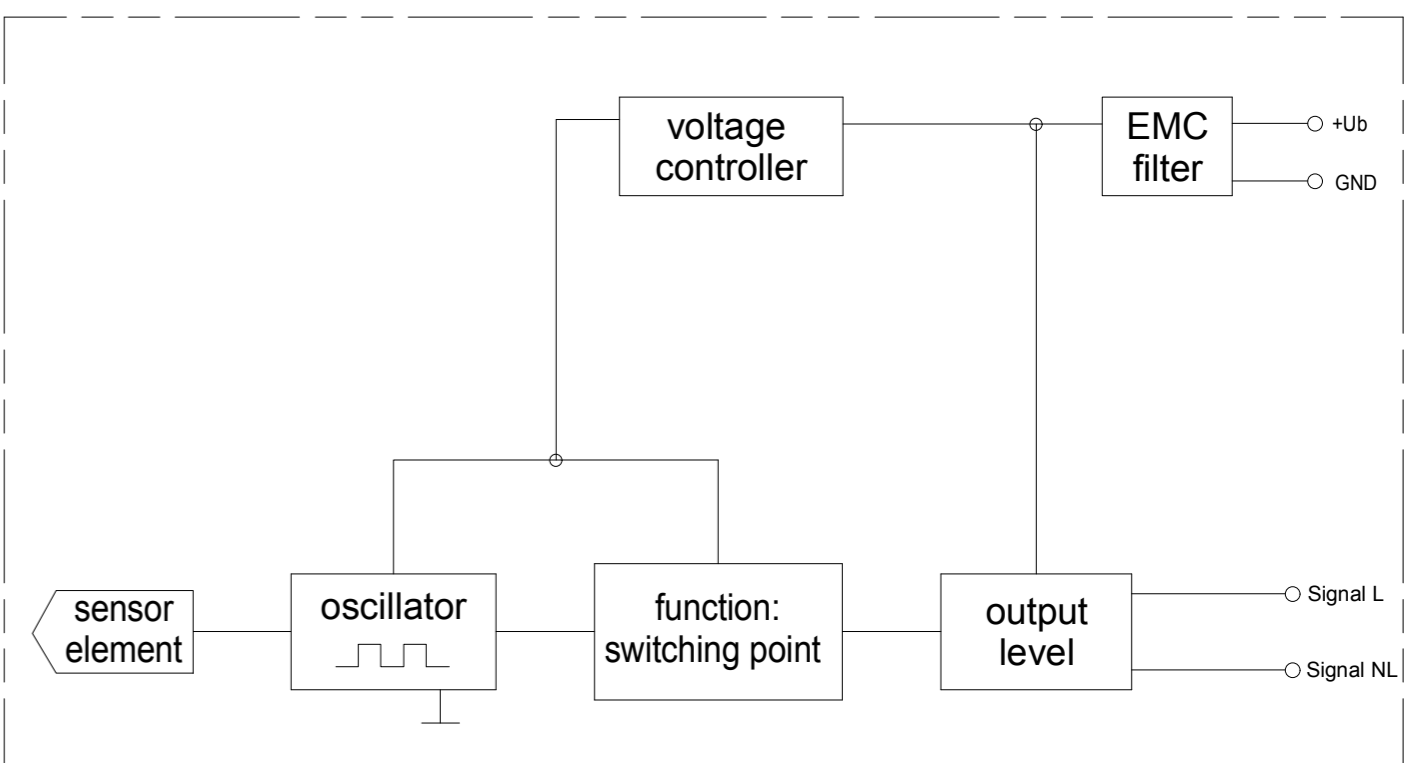
EMC

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



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

Block diagram



basis sample drawing
CLS10-001-001V1

Zul. Abweichung / admissible tolerance	Oberfläche / surface	Maßstab / scale	Sprache / language	Blatt / sheet
		1:1	ENU	1 / 1
ISO2768-mK		Benennung / description		
Datum / date		Name / name		
Erstellt / created by	10.09.2015	MoeMi		
Geprüft / checked by	11.09.2015	SasCh		
Format / Size	A2	Maßeinheit / dimension unit in [mm]		
Zug. Art/ drw.type		Zug. Art/ drw.type		
a see text		31.03.16 MoeMi/SasCh		
Zust./ rev.	Änderung/modification	Datum/date	Name/Geprüft checked by	
Zeichnungsnummer / drawing number		360001		

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