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Technical description for min level sensors low side switch

with approvals :

ABS, BV, CCS, DNV, GL, KR, LR, NKK, RINA, RS

Voltage rating	TU = 25 °C DC 12/24 V ( -25% / +30% )
Current consumption	typ. 8 mA
Signal output switching capacity	12 W /12 V; 24 W / 24 V 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.
Switch point vertically mounted	18mm ± 6mm
Switch point horizontally mounted	2,5mm ± 1mm
Switch point hysteresis	typ. < 3mm
Medium temperature	-30°C to +125°C
Ambient temperature	-30°C to +125°C
Storage temperature	-50°C to +125°C
Fault indication delay	7 seconds
Function test	2 seconds
Function	operating current (oc)
Reverse polarity protection	in-built, between plus and minus terminal

**Caution !!**

With low-side switching sensors do not connect minus potential to signal terminal and plus potential to minus terminal.

Voltage drop	< 300mV / 1A
Overvoltage protection	limits the voltage to approx. 40 V. (suppression diode)

Vibration	IEC 68-2-6 2 - 25Hz × 1,6mm Amplitude 25 - 100 Hz 4g
Pressure resistance	25 x 105 Pa ( 25bar = 367,5 PSI )
Degree of protection	IP 67 to DIN40050
Mounting attitude	optional
Housing	capacitively connected to ground
Material	brass - CuZn38Pb1,5 galvanic nickel plated
Probe coating	Tefzel® ETFE
Mass	approx. 180g
Mounting thread	M18 x 1.5
Connection turning moment	max. 25Nm
Marking	manufacturer; manufacturer number; date: year/ calendar week approvals; function; pin assignment

**EMC**

Electrostatic discharge	IEC 1000-4-2 8kV air discharge 6kV contact discharge
Radiated electro-magnetic fields	IEC 1000-4-3 10 V/m; 27 MHz to 1000 Mhz 80% AM (1kHz)
Burst	IEC 1000-4-4 2 kV power supply 1 kV signal output
Surge	IEC 1000-4-5 1 kV, diff. mode: power supply 2 kV, common mode: power supply 2 kV, common mode: signal output
Conducted high frequency	IEC 1000-4-6 3 V; 10 kHz to 80 Mhz 80% AM (1kHz)
Conducted low frequency	IEC 945 3 V rms; 50 Hz to 10 kHz

CE-marking to EC-directive 89/336/EWG (EMC - directive)

field of application	admissible tolerance	surface	scale 1:1	position -	amount -
	ISO 2768-mK	-	-	-	-
		date	description		
	created by	25.11.2004	PLCA-50 operating current - low side switch - oil level-sensor		
	checked by	25.11.2004	with connector bayonet 10SL		
			drawing number		sheet
			5012021121		2/2
rev.	modification	date	drawing path: I:\CAD\5011\5012021121\US_2.dwg		

