

987.2 PDK Failed Distance Sensor Bench Test Readings

Signal Name/Pin No.	Hz		Duty Cycle %			No magnet			Voltage (DC)		
	Standard	Measured	(-) side 10mm	Center	(+) side 10mm	Vdc	Duty Cycle %	Hz	(-) side 10mm	Center	(+) side 10mm
DS-1 [pin 7]	1000	867.2	90.0	90.0 (0mm)	90.0*	4.57	90.0	1052.0	4.83	4.83	4.83
DS-2 [pin 8]	850	873.0	30.0	50.0 (+1.0mm)	81.8	4.82	95.0	873.0	1.52	2.54	4.15
DS-3 [pin 9]	1000	1025.8	15.1	49.9 (-2.0mm)	75.4	2.60	51.1	1025.8	0.77	2.54	3.83
DS-4 [pin 10]	850	867.3	82.8	50.6 (+2.0mm)	21.4	4.83	95.0	867.3	4.20	2.57	1.09
SENS GRD [pin 13]											
5V SPLY [pin 12]											

Bench test tools: 5.1Vdc USB power supply and Fluke 87-V Voltmeter

\* = moving in the positive direction beyond +10mm started to decrease duty cycle % to 65.1 at +15mm and then irractically rise to the sensor edge

Control Unit	-	Fault Code	Description
Porsche Doppelkupplung		P1731	Shift Rod 1 displacement sensors (Signal implausible)