



Data Sheet Supplement Version 1.0

Dynamic Differential Hall Effect Sensor

TLE4927C E6547

For all parameters not specified in this document the TLE4926C-HT E6547 data sheet is valid.



Type	Marking	Ordering Code	Package
TLE4927C E6547	27D8	SP000718266	PG-SSO-3-92

1. Absolute Maximum Ratings

Parameter	Symbol	min.	typ.	max.	Unit	Conditions
Junction temperature	T_j	-40			°C	-
				155	°C	2000 h (not additive)
				165	°C	1000 h (not additive)
				175	°C	168 h (not additive)
				195	°C	3x1 h (additive to the other life times).

2. Operating Range

Operating junction temperature	T_j	-40			°C	-
				155	°C	2000 h (not additive)
				165	°C	1000 h (not additive)
				175	°C	168 h (not additive) reduced signal quality permittable (e.g. jitter).

3. Magnetic Characteristics in Running Mode

Minimum signal amplitude	$ \Delta B_{\min} $	0.35	0.75	1.35	mT	
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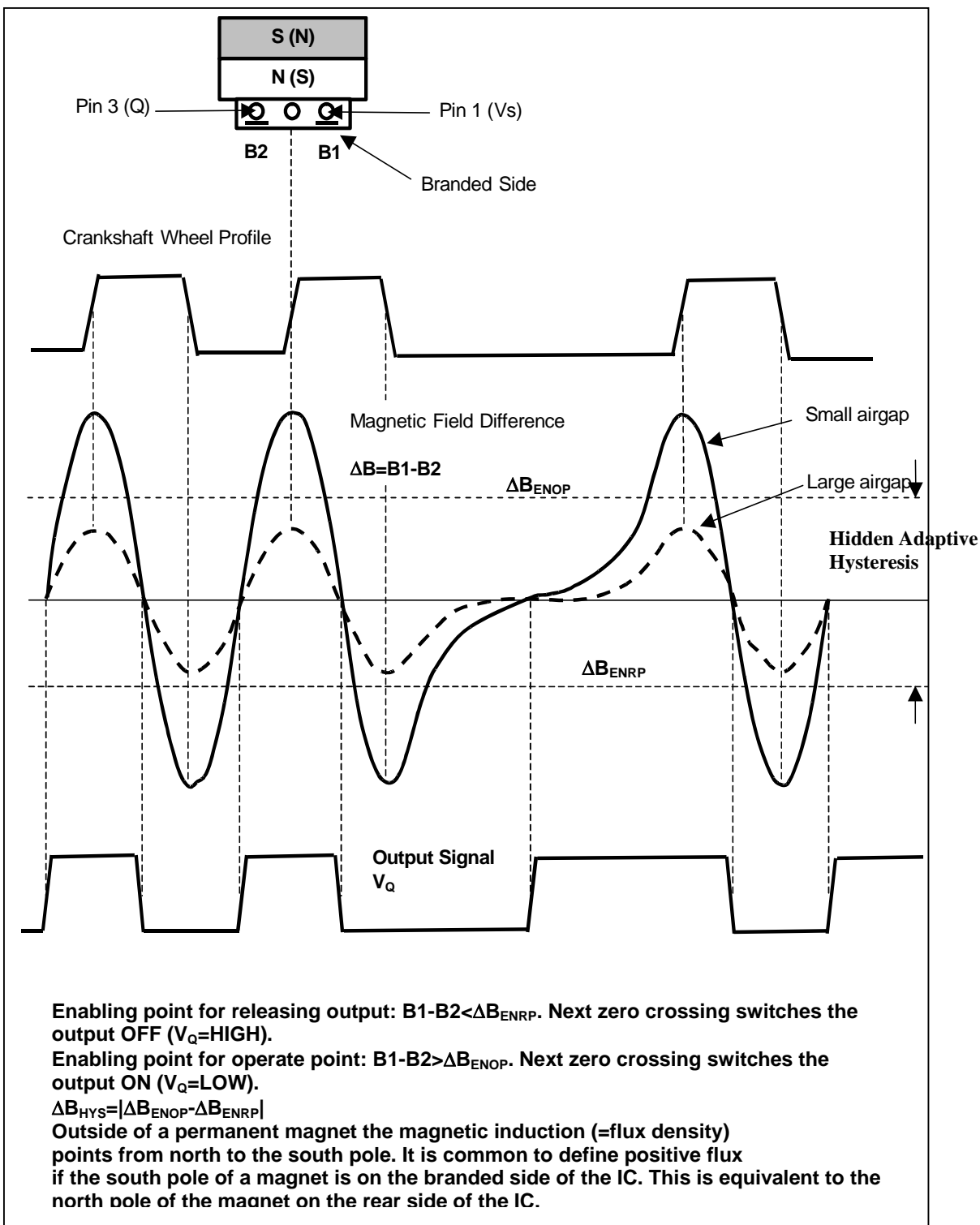


Figure 1 System operation with hidden adaptive hysteresis

4. Typical Hysteresis Values

PGA	GainRange	Hysteresis (peak to peak)	FullRange =MaxSignal	Percentage thresholds
X1	6	10.6 mT	± 120 mT	4.42 %
X2	5	8.0 mT	± 60 mT	6.67 %
X4	4	5.5 mT	± 30 mT	9.17 %
X8	3	3.8 mT	± 15 mT	12.67 %
X16	2	2.6 mT	± 7.5 mT	17.33 %
X32	1	1.8 mT	± 3.75 mT	24 %
X64	0	1.3 mT	± 1.875 mT	34.67 %

Revision History:**November 2009**

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