Data Sheet Supplement
Version 3.0 (valid for 8" product)

Dynamic Differential Hall Effect Sensor   TLE4928C

For all parameters not specified in this document the TLE4925/25C data sheet is valid.

PG-SSO-3-9

Type	Marking	Ordering Code	Package
TLE4928C	28C	SP000269349	PG-SSO-3-9

1 TLE4928C

1.1 Operating Range

No.	Parameter	Symbol	min	typ	max	Unit	Remarks
1.1.1	Power on time	t_{on}			1	ms	Time to achieve specified accuracy After power on the output of the IC is always in high-state. After internal resets output is locked[1].

1.2 AC/DC Characteristics

Note: Not part of production testing, verified by design and characterization.

No.	Parameter	Symbol	min	typ	max	Unit	Remarks
1.2.1	Frequency range	f	0.006		8	kHz	Operation below 6Hz[2]
1.2.2	Offset recalibration time after last output change	t_{reset}	165	195	225	ms	Valid for calibrated mode Output locked to state before recalibration

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[1] Output of the IC is locked in present state (high-state or low-state) after an internal reset is launched. This reset happens typically every 195ms when there is no output switching in either case. See also 1.2.2. A voltage reset causes a release of the output and output is in high state after power on again.
[2] output will switch if magnetic signal is changing more that $2x \mid \Delta B_{min} \mid$ within offset recalibration time even below 6Hz once per magnetic edge, increased phase error is possible

Revision History: April 2007   Version 3.0

Previous Version: 2.0	
Page	Subjects (major changes since last revision)
1	Data sheet is valid for 8" products
1	Ordering code added

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Data Sheet