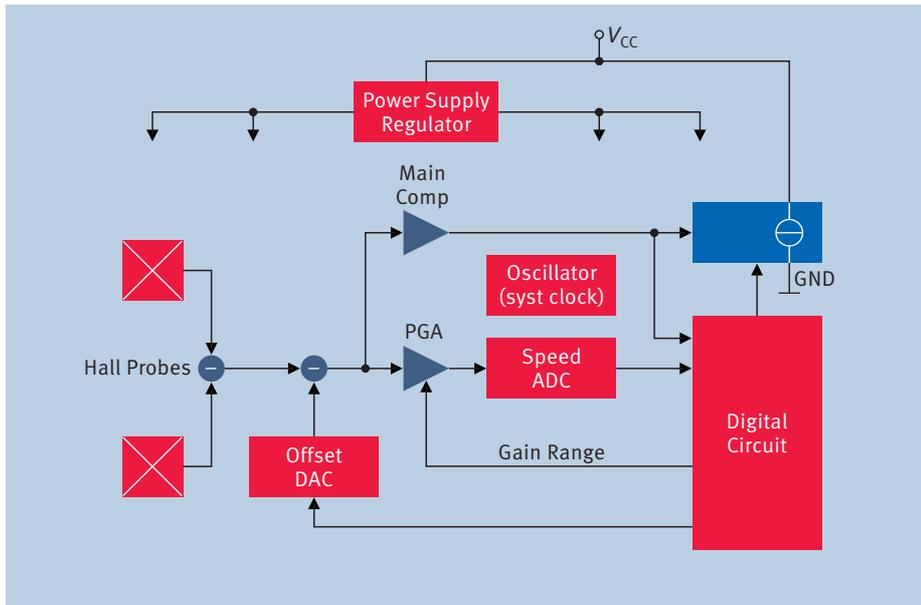


## Block Diagram

TLE4941 signal path is comprised of a pair of hall probes, spaced at 2.5 mm, a differential amplifier including a noise-limiting low-pass filter, and a comparator feeding a switched current output stage.

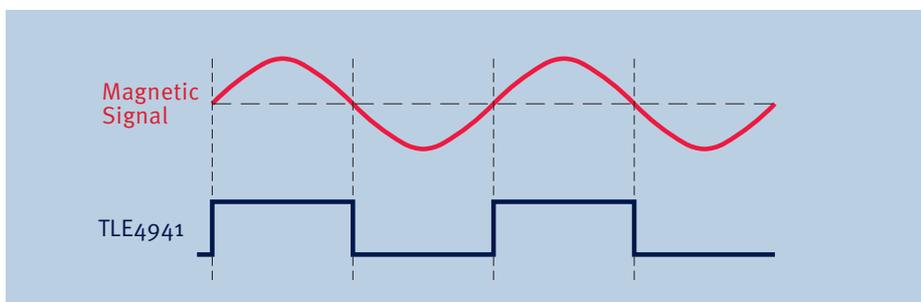
IN ADDITION an offset cancellation feedback loop is provided by a signal-tracking A/D converter, a digital signal processor (DSP) and an offset cancellation D/A converter.



Parameter	Value	Unit
Operating voltage	4.5 ... 20	V
Supply current (L/H)	7 / 14	mA
Min magn. flux density	< 1.5	mT
Power on time	< 1	msec
Frequency range	< 1 ... 5000	Hz
Temperature range	-40 ... +150	°C
Jitter	< 2	%

## Interface Description

TLE4941 outputs a conventional square wave signal for speed frequency.



Type	Sales Code	Package
TLE4941	Q62705-K714	PG-SSO-2-1
TLE4941C	Q62705-K715	PG-SSO-2-2
TLE4941-1	Q62705-K719	PG-SSO-2-1
TLE4941-1C	Q62705-K712	PG-SSO-2-2

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