Quick Reference

![Melexis - Microelectronic Integrated Systems]
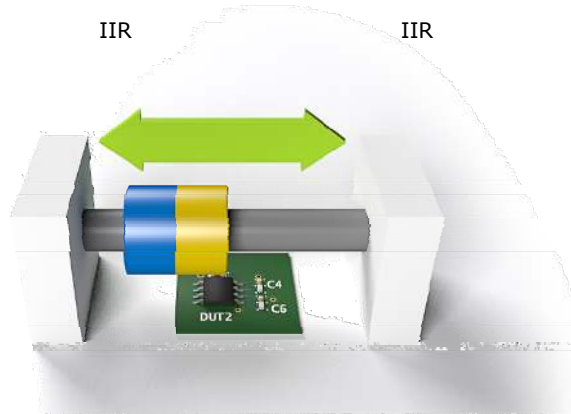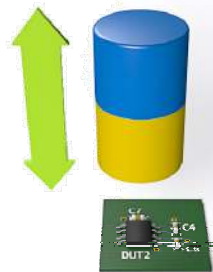
Linear Hall Sensors

Melexis, the pioneer in programmable linear Hall sensors, presents its third product generation. This new family breaks with the conventional "single-in-line-package" (SIP) approach since this requires more careful design consideration to avoid mounting, space, EMI, reliability and cost-penalties at the system level in many applications. The new Melexis programmable linear Hall ICs are surface-mount devices (SMD) supporting the trend for improved manufacturability of sensor assemblies and modules.

FUNCTIONALITY	GEN II	GEN III			
	MLX90251	MLX90288	MLX90291	MLX90292	MLX91207
Package	SIP-VA	SOIC-8	SOIC-8	TSSOP16	SOIC-8
Sensitivity Range	2.6 to 210mV/mT	3 to 330mV/mT	0.1 to 3%DC/mT	12 to 68LSB/mT	5 to 130 mV/mT
Magnetic Flux Density Span	19 to 1500mT	12 to 1300mT	30 to 800mT	60 to 340mT	30 to 800 mT
Output Protocol	Analog	Analog	PWM	PWM or PSI-5	Analog
DSP	none	dedicated	dedicated	u-Controller	None
Filtering	switch-cap (analog)	IIR	IIR	FIR	LPF (analog)

We Engineer The Sustainable Future

For additional information email **info@melexis.com** or go to our website at: **www.melexis.com**