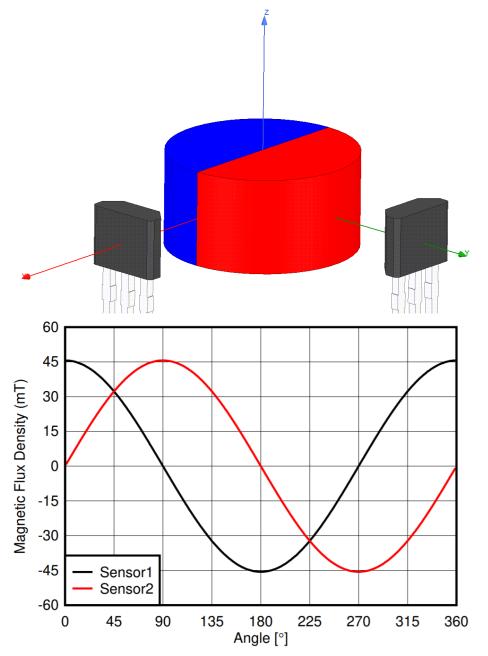
Three Dimensional (3D) Sensing Applications

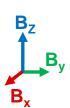
TI Precision Labs – Magnetic Sensors

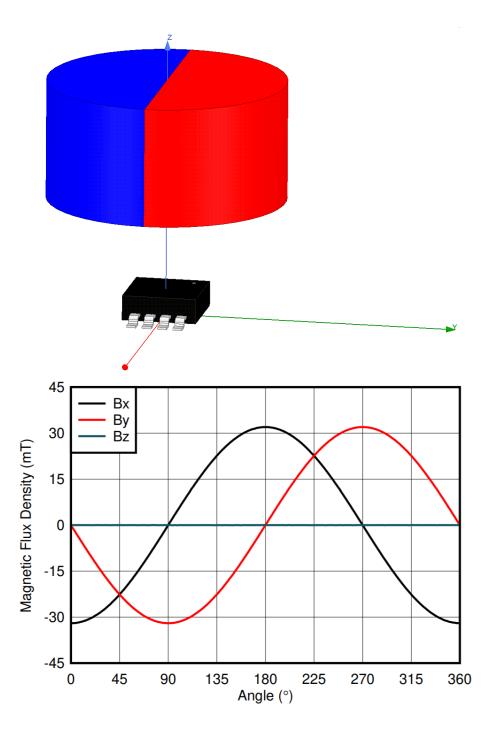
Presented and Prepared by Mekre Mesganaw



Angle measurement







3D angle measurement applications – HMI knobs





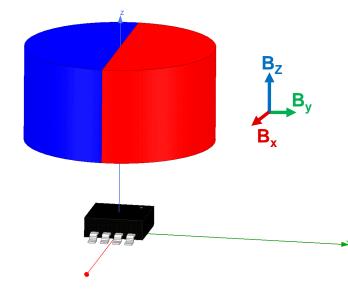
Washer/Dryer Knobs

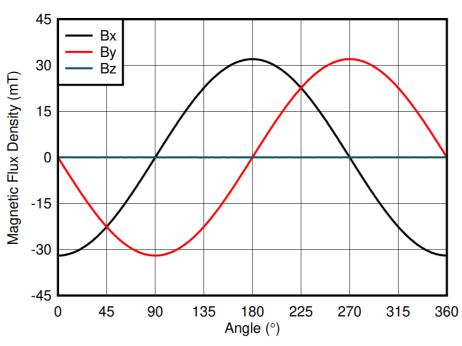






Car A/C, Navigation, and Radio knobs

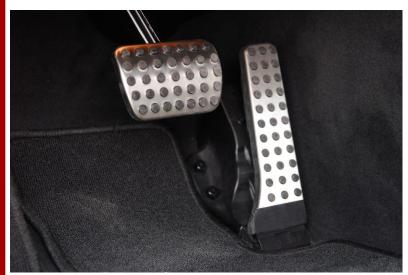




Other 3D angle measurement applications







Gas/Brake/Clutch Pedals



Steering Angle Detection

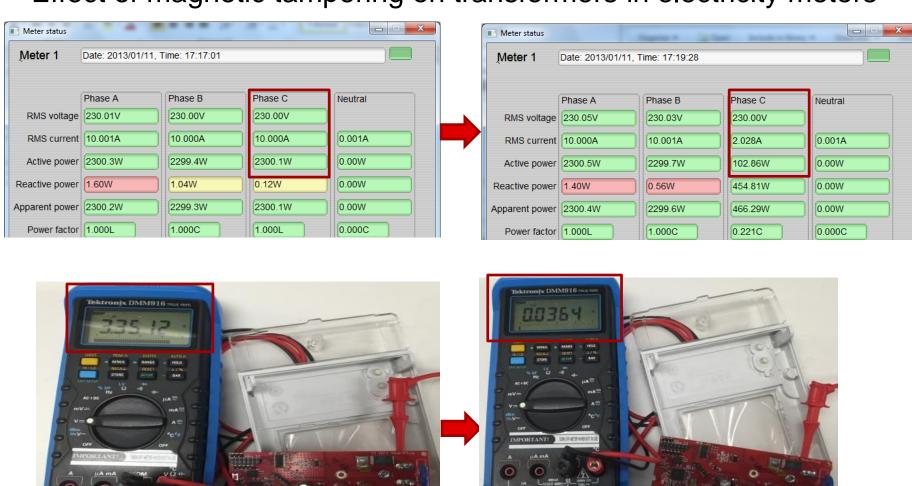




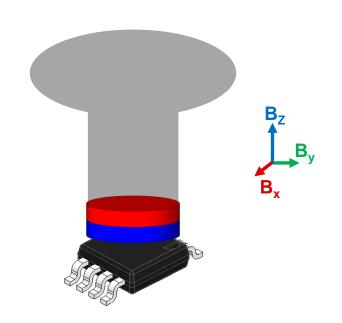
3D limit detection (electricity meter tampering)



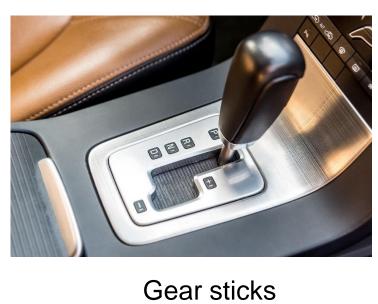
Effect of magnetic tampering on transformers in electricity meters



3D absolute position and multi-state detector

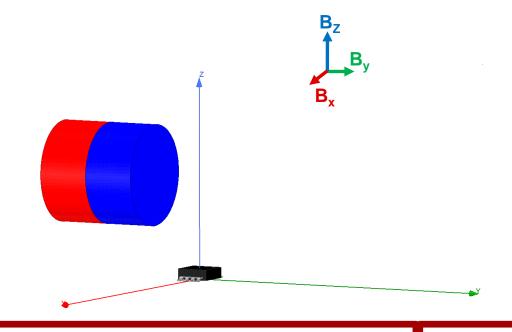






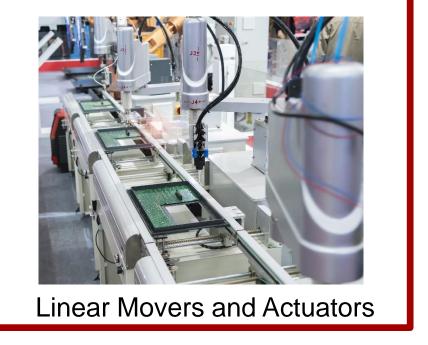


3D slide-by displacement









To find more magnetic position sensing technical resources and search products, visit ti.com/Halleffect