



When do you use which encoder?

Compare rotary optical, inductive and capacitive encoders

	Optical encoders	Inductive encoders	Capacitive encoders
resolution	18 ... 22 bit	9 ... 22 bit	16 ... 21 bit
accuracy	± 0,01°	± 0,0053° ... ± 0,0417°	± 0,006° ... ± 0,020°
repeat accuracy	1 LSB*	1 LSB*	1 LSB*
dirt-resistance	limited	excellence	very good
temperature range	-20 ... +85 °C	-60 ... +105 °C	-40 ... +85 °C
electromagnetic resistance	excellence	good	excellence

* *Least Significant Bit*