Position control with encoders
Optical or inductive? Which technology is compatible with your application?

Optical encoder	10 SELECTION CRITERIA	Inductive encoder
1,2 nm to 5 µm	resolution	50 nm to 0,1 mm
linear glass up to ± 1 µm/m	accuracy	7-10 µm/m after linearization
up to 10 m/s (at 0,2 µm)	maximum speed	up to 32 m/s (at 10 µm)
2,4 ± 0,15 mm	stand-off	0,2 to 0,6 mm
from 13 x 11,8 x 3,8 mm	dimensions	from 6,8 x 9 x 1,6 mm
limited	dirt-resistance	outstanding
outstanding	vacuum environment	optional
0 °C to 70 °C	temperature range	-20 °C to 100 °C
good	electromagnetic resistance	good
A-quad-B, index, limits, quasi absolute, sincos	output signal	A-quad-B, index, absolute