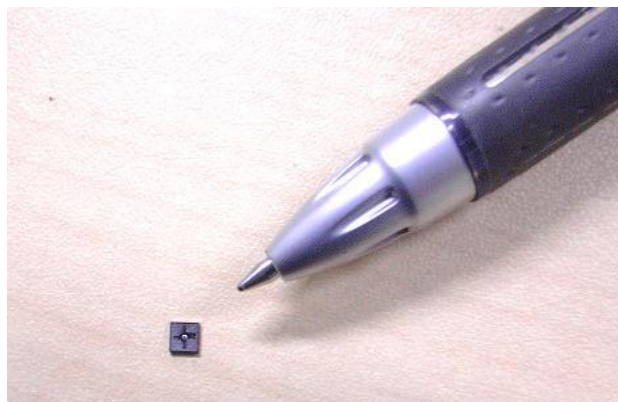


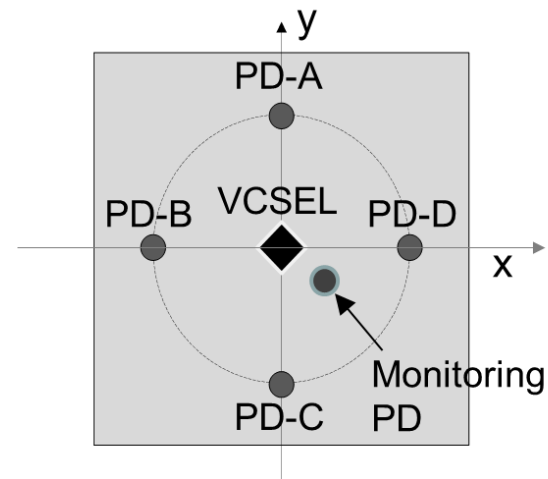
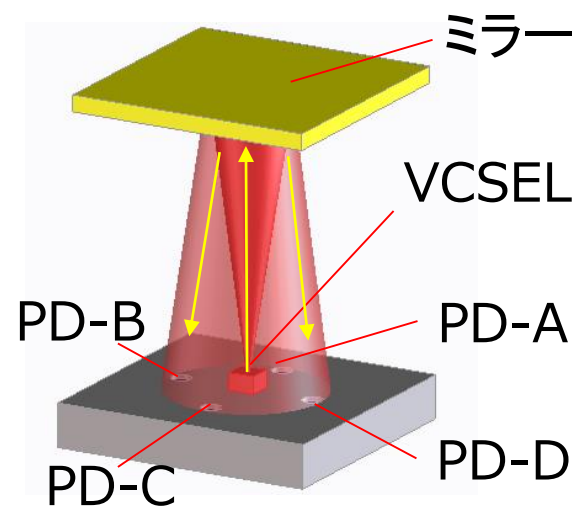
# ・マイクロ変位センサ



従来の変位センサ

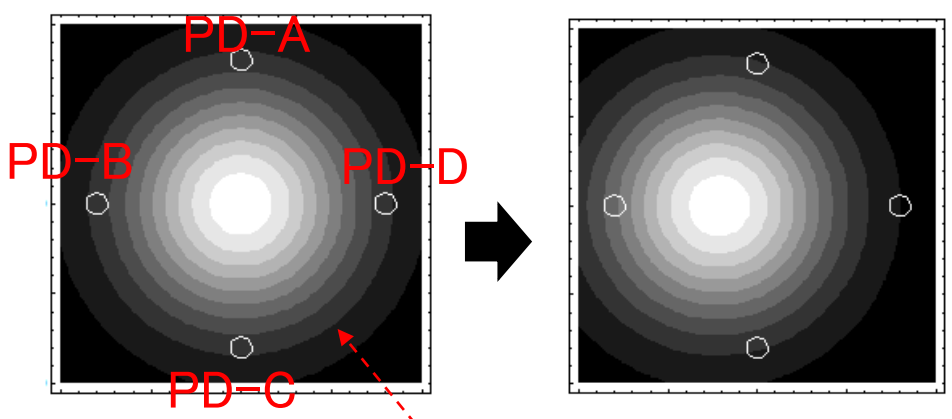
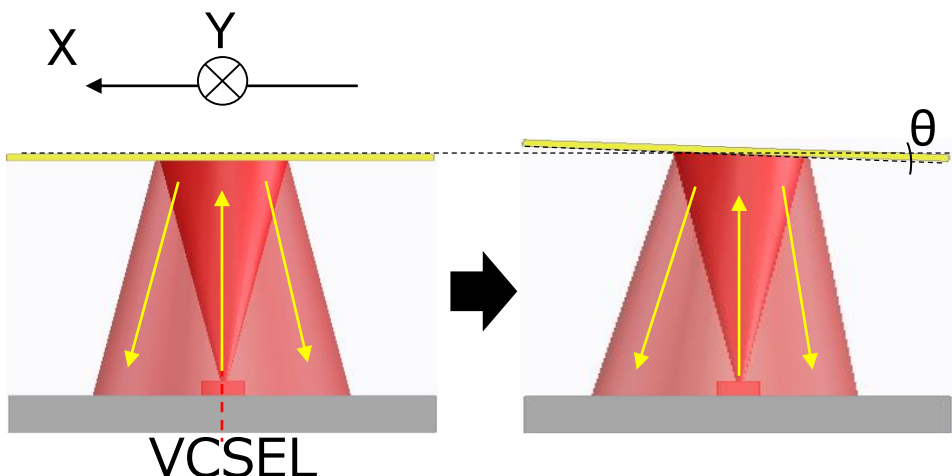


マイクロ変位センサ



直線変位、回転角度の測定  
3.0 mm × 3.0 mm × 0.7 mm  
VCSEL (面発光レーザ)  
フォトダイオード(検出用、モニタ用)

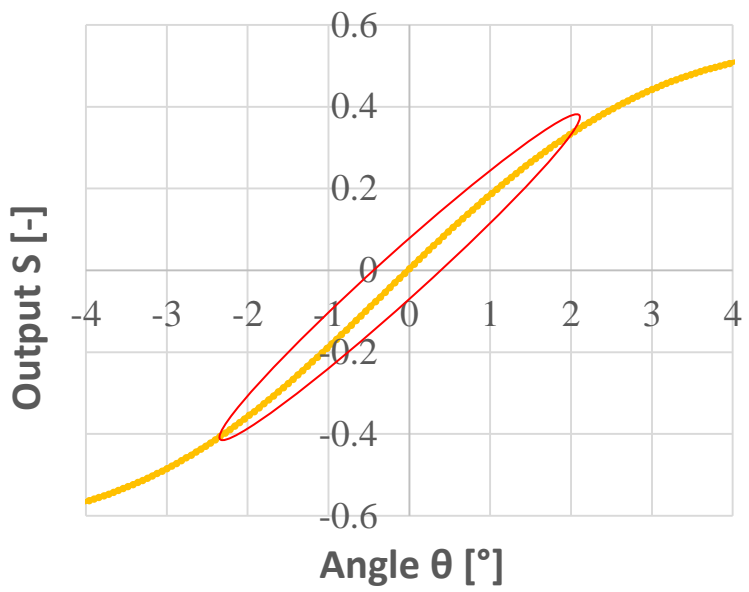
# • 回転角測定の実理



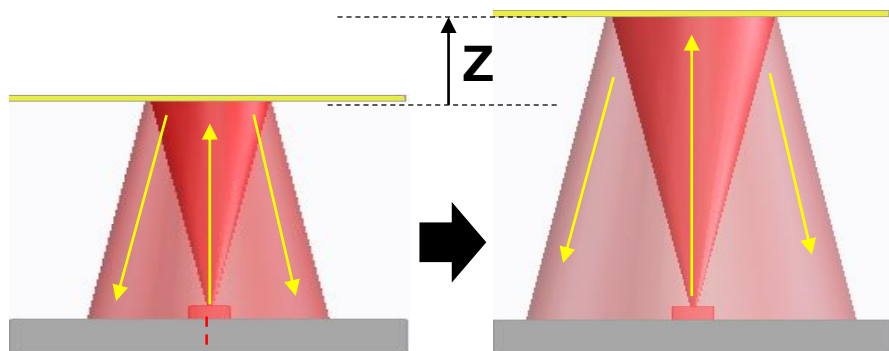
強度分布

$$S_{rotx} = \frac{P_A - P_C}{P_A + P_C} \text{ [V/V]}$$

$$S_{roty} = \frac{P_B - P_D}{P_B + P_D} \text{ [V/V]}$$



# 変位測定の実理



VCSEL

PD-A

PD-B

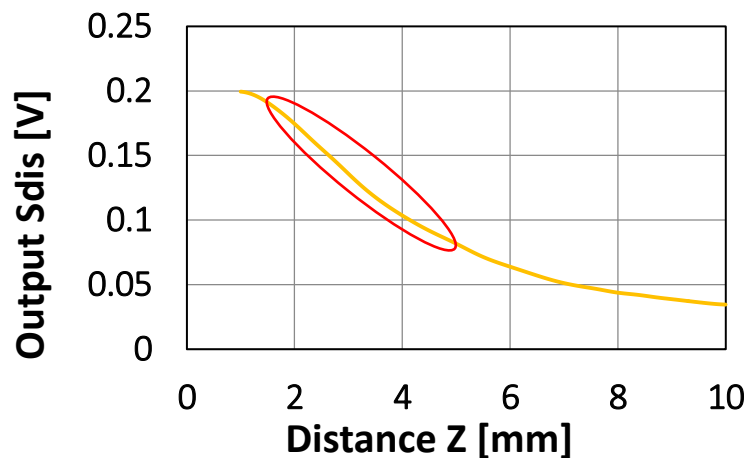
PD-D

PD-C

強度分布

$$S_{dis} = PA + PB + PC + PD \text{ [V]}$$

$P_n$ : PD-n の電圧[V]



測定範囲	100μm	2000μm
分解能	180nm	30μm