



ESDU SPB-M2-1

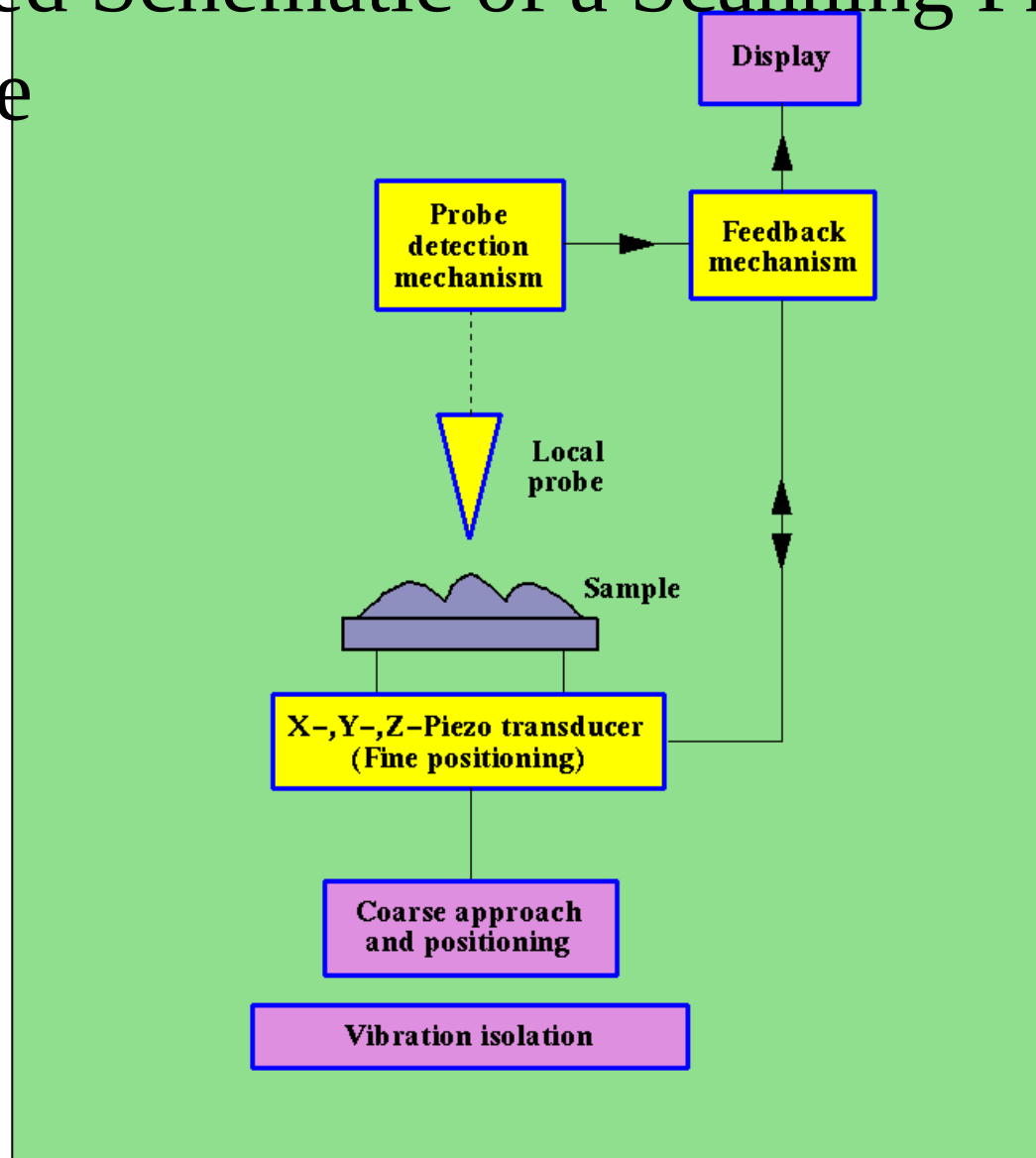
Interfacial and rheological properties of asphaltenes studied by atomic force microscopy

Unamended
Issued 01 Jun 2007

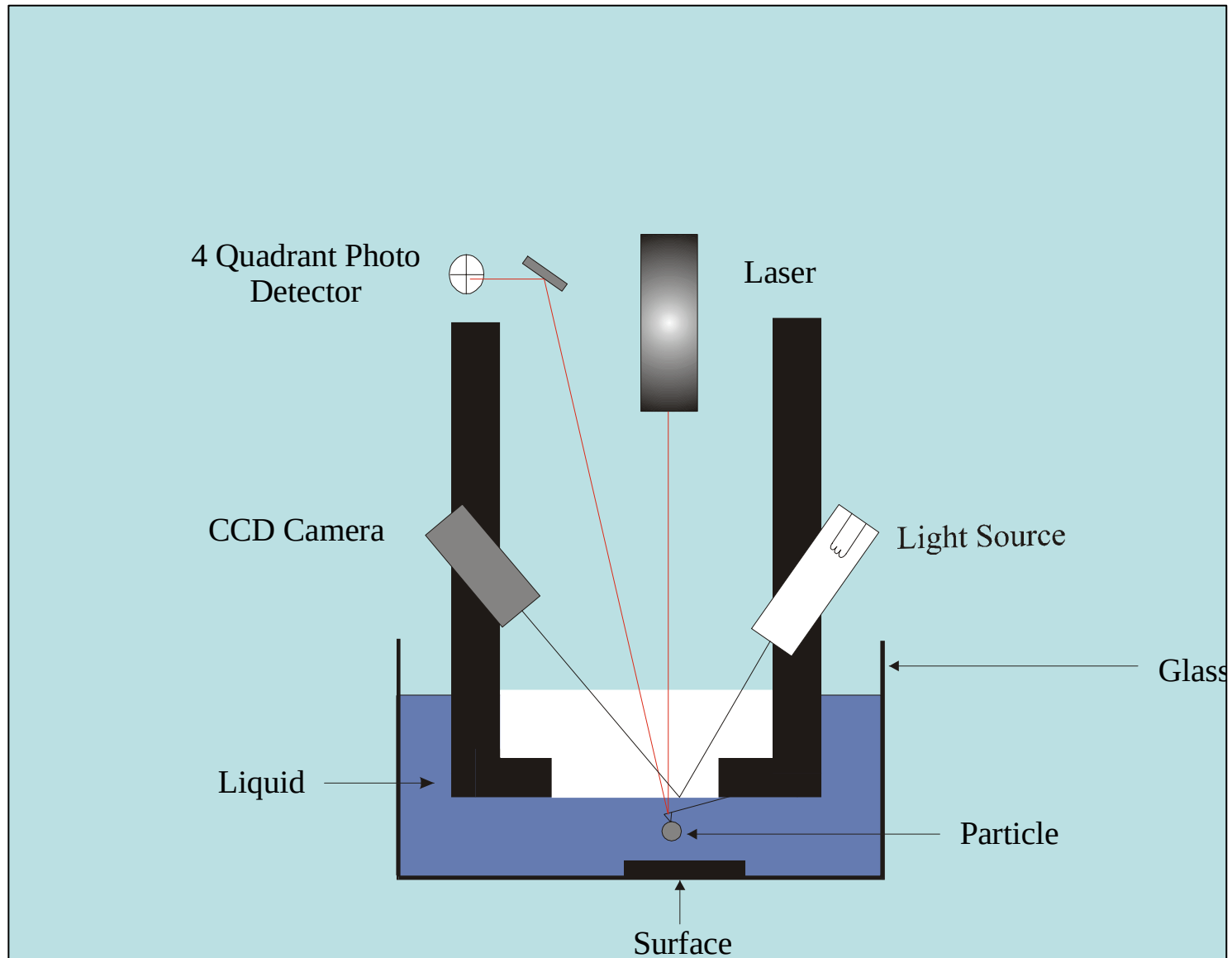
Sub-Project B: Interfacial and rheological properties of Asphaltenes studied by Atomic Force Microscopy

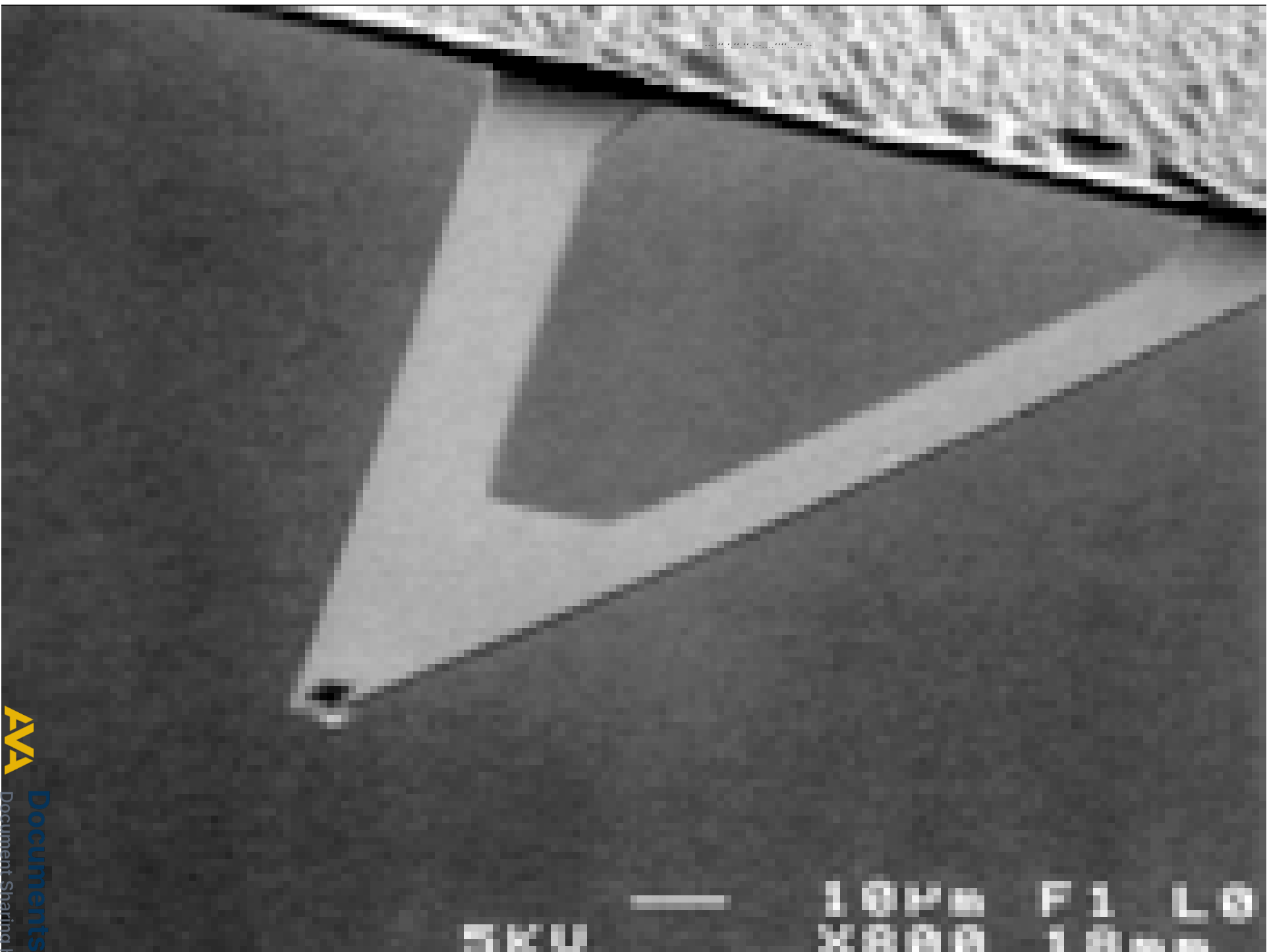
*(Paul Luckham, Mahtab Behrouzi
Chris Lawrence and
Stephen Richardson)*

Generalized Schematic of a Scanning Probe Microscope

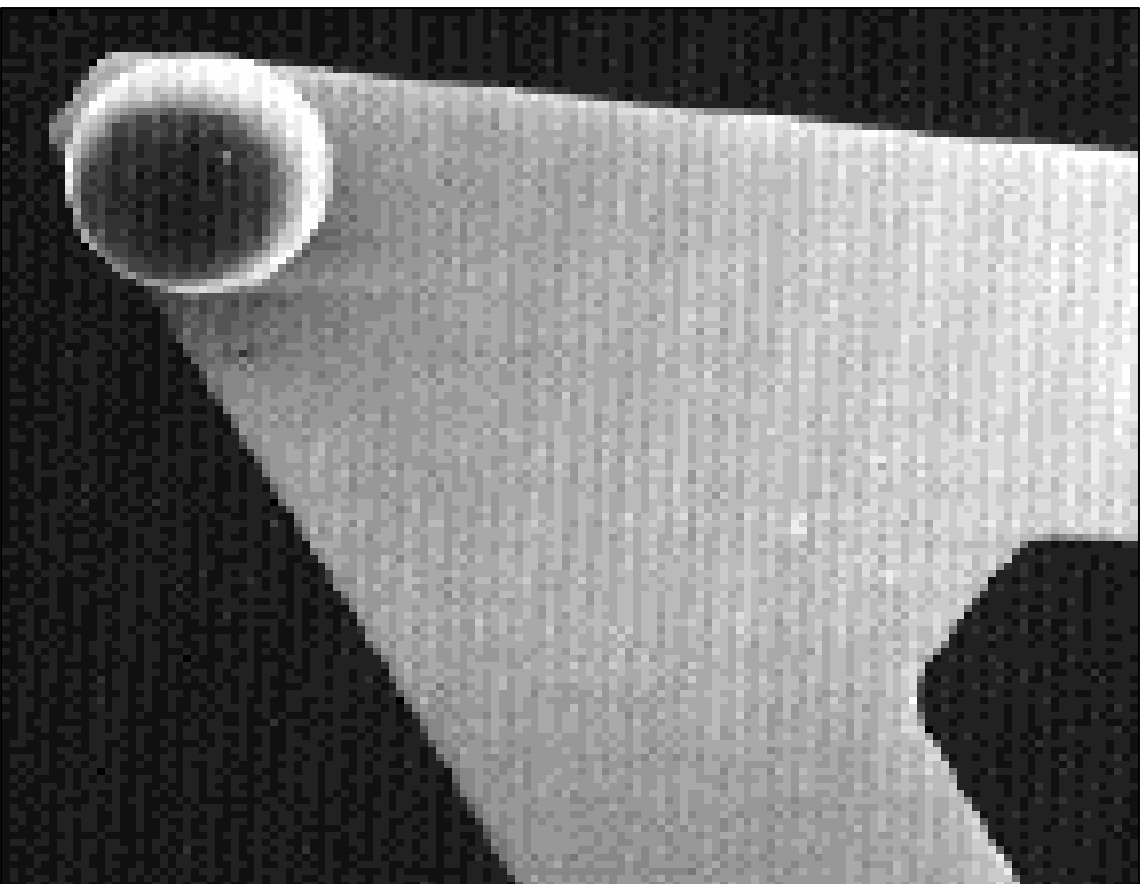


A Modified AFM





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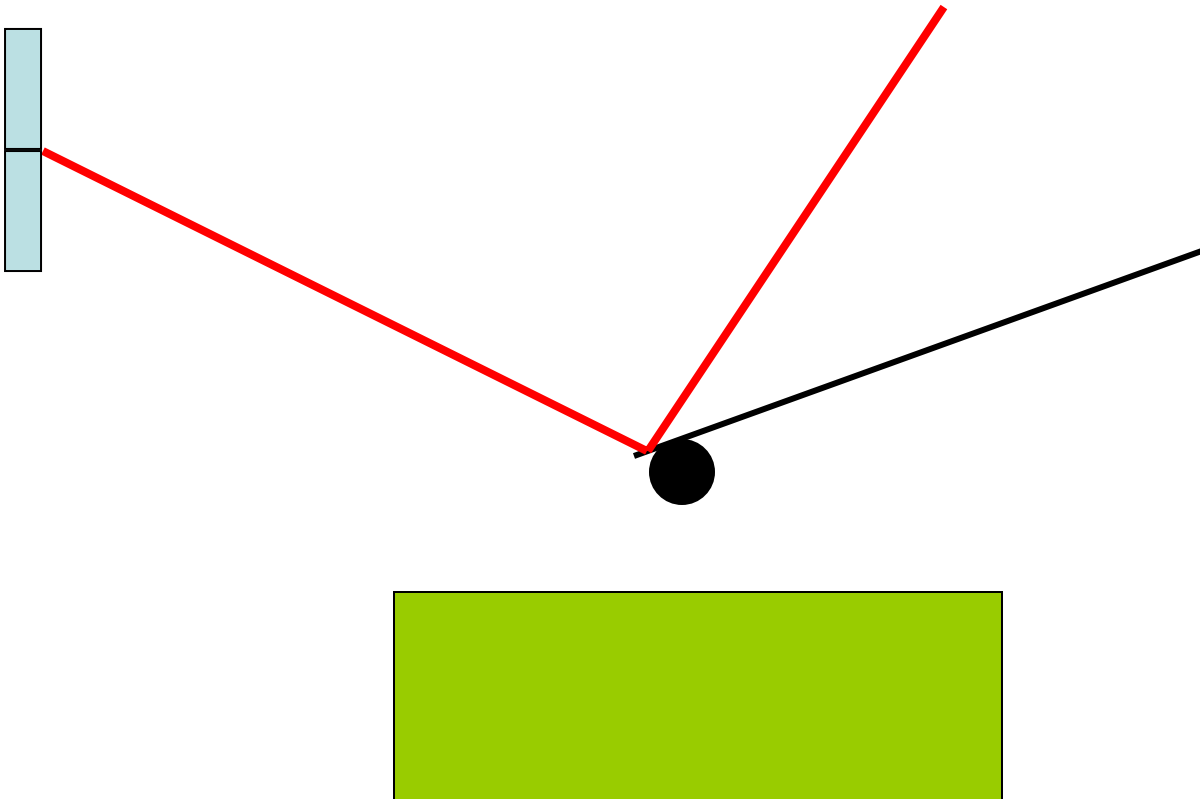


Position
sensitive
photodiode



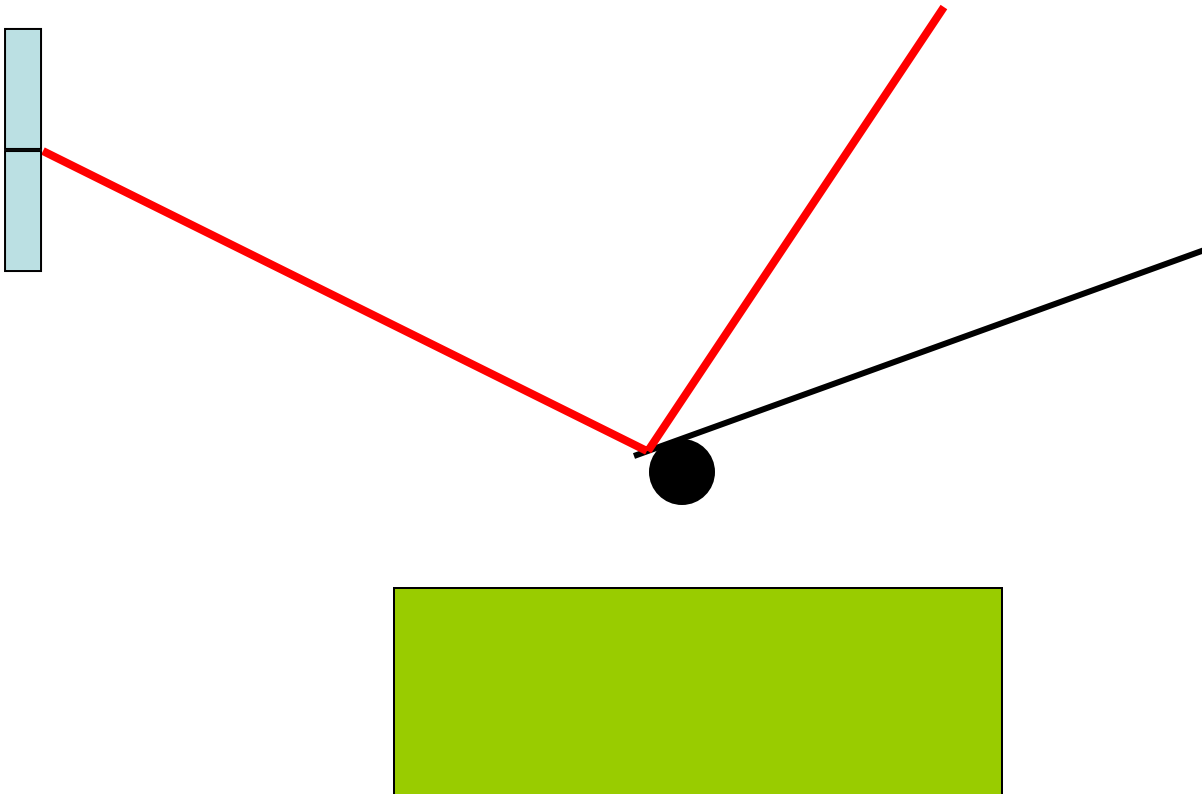
Piezo Ceramic Drive

Position
sensitive
photodiode



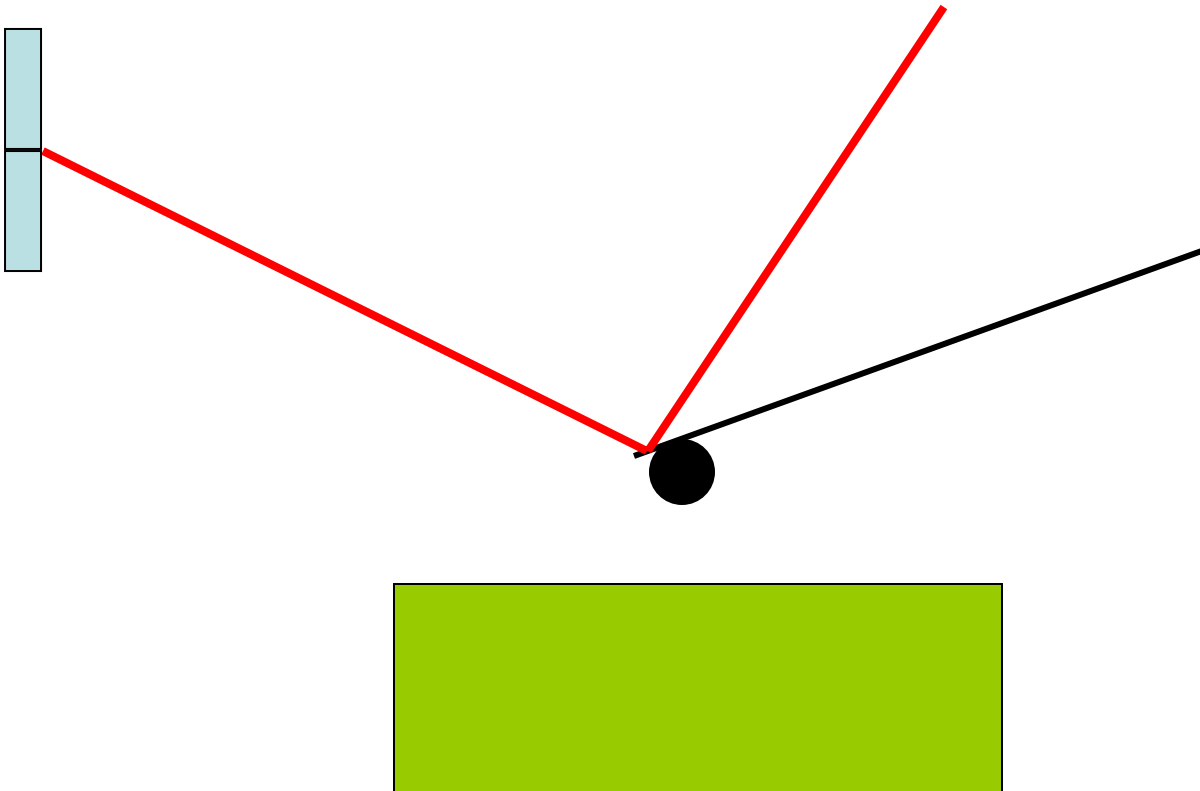
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Position
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photodiode



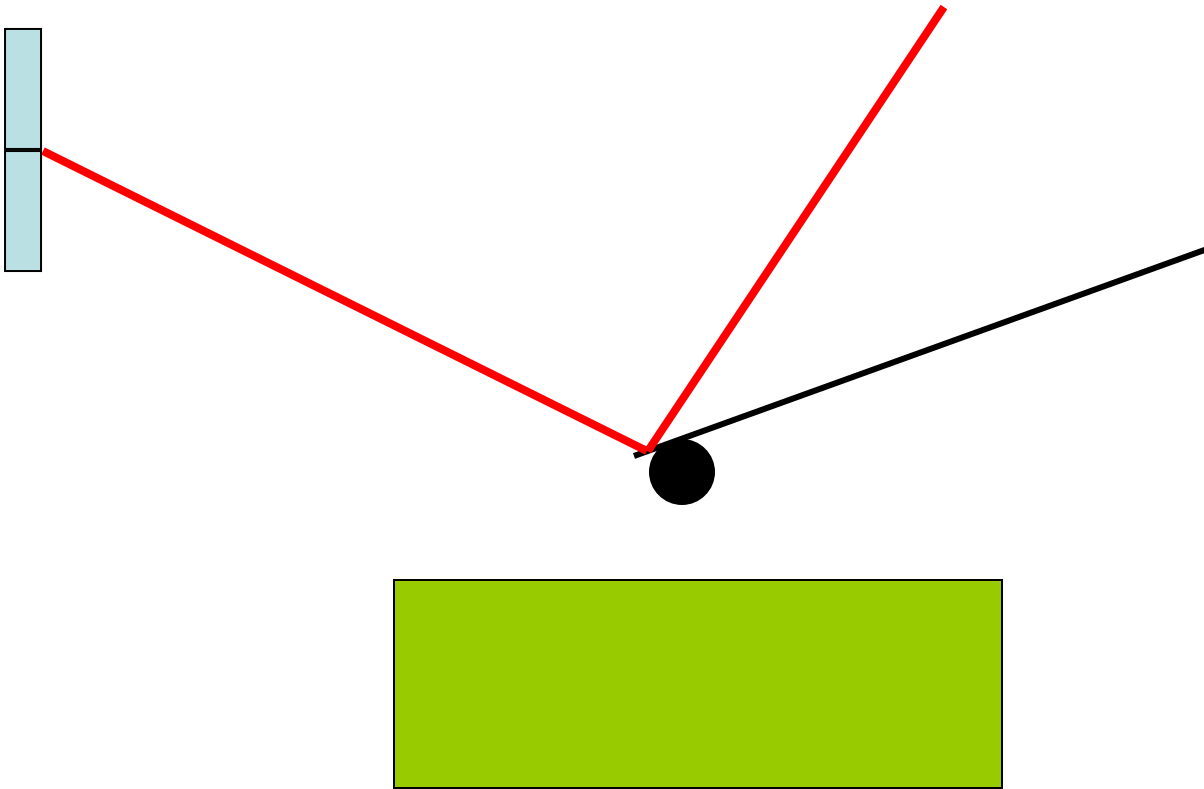
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Position
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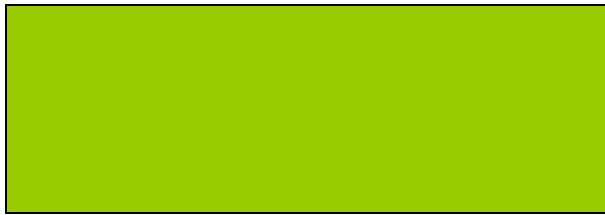
Piezo Ceramic Drive

Position
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photodiode

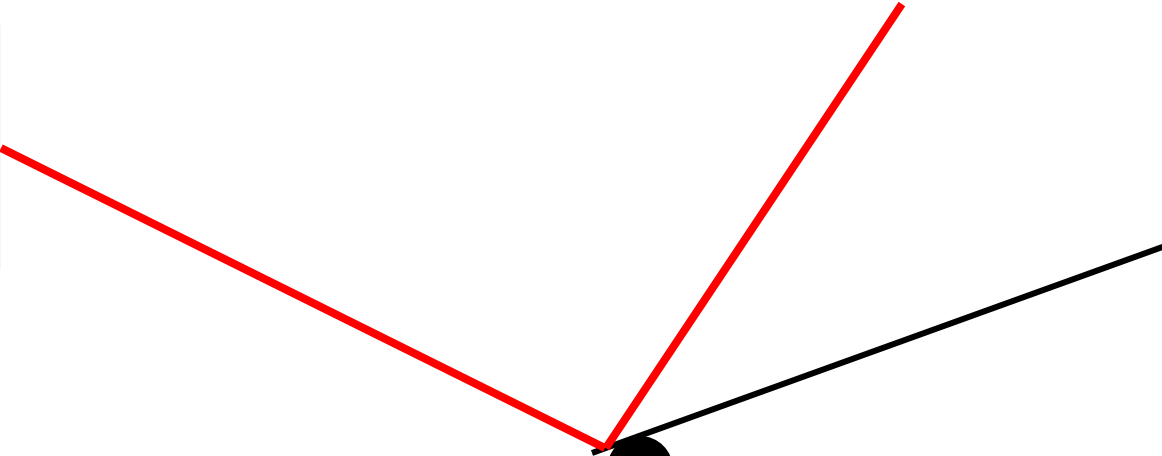


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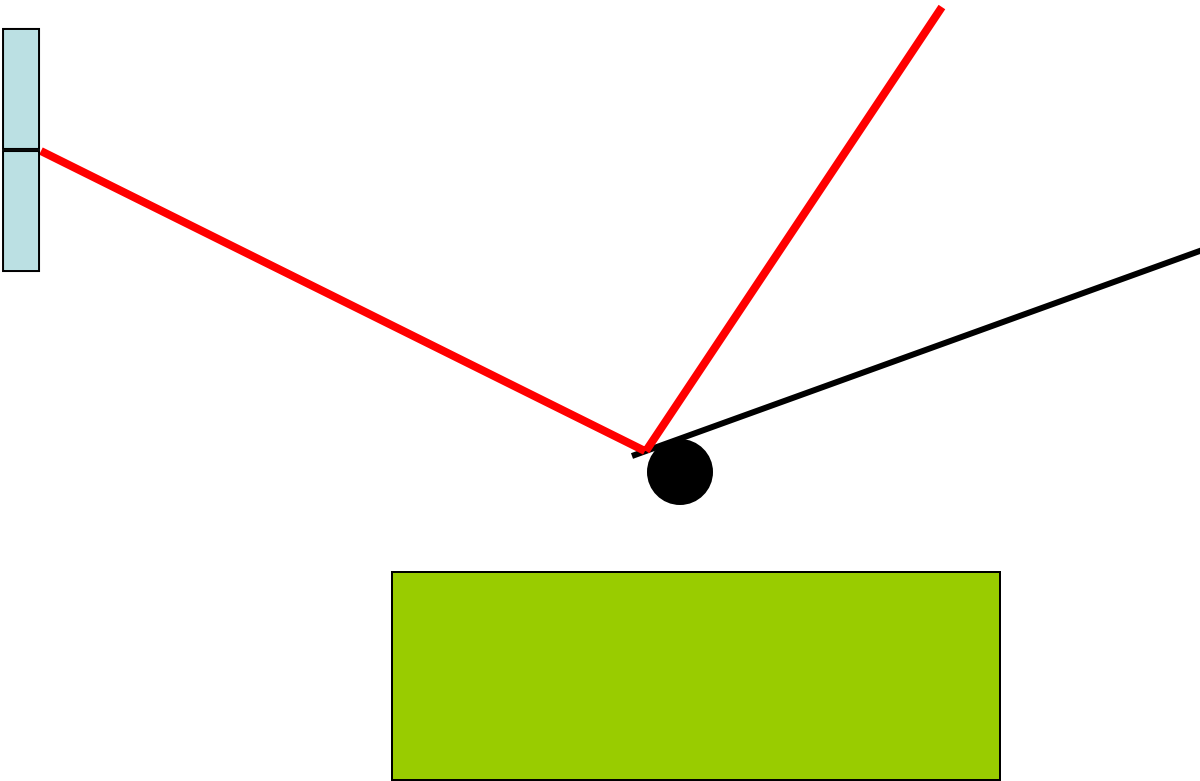
Position
sensitive
photodiode



Piezo Ceramic Drive



Position
sensitive
photodiode

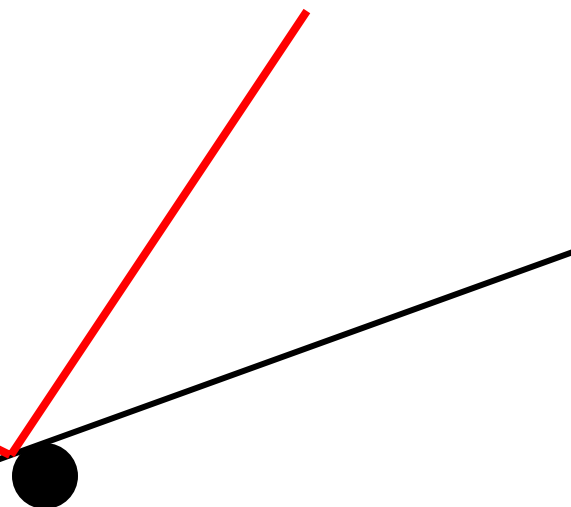


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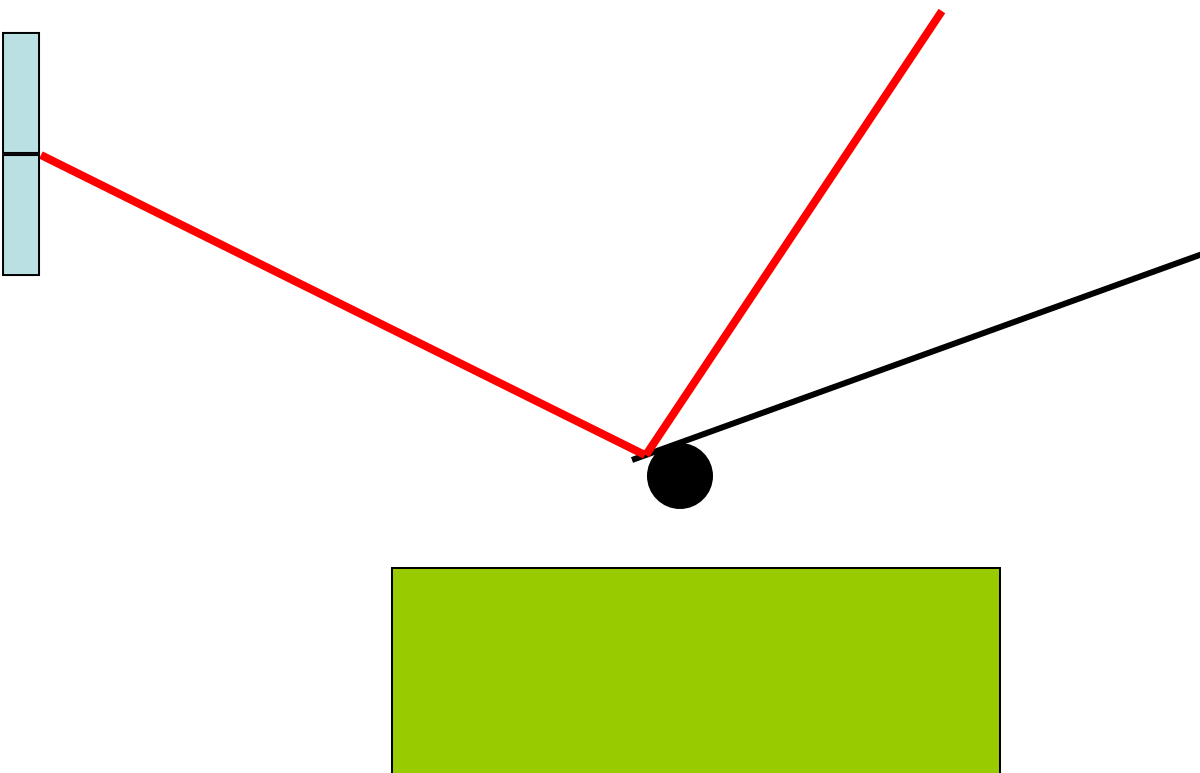
Position
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photodiode



Piezo Ceramic Drive

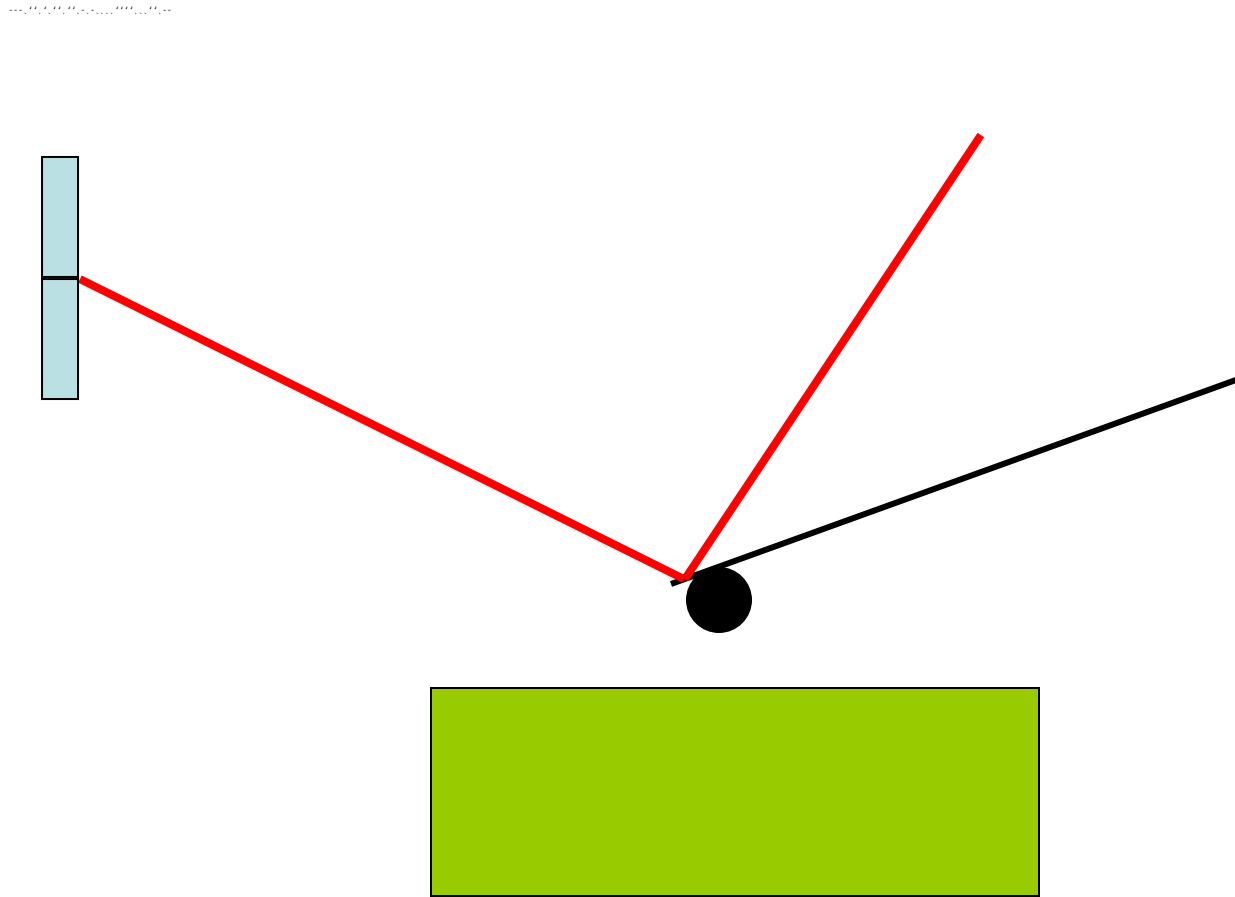


Position
sensitive
photodiode



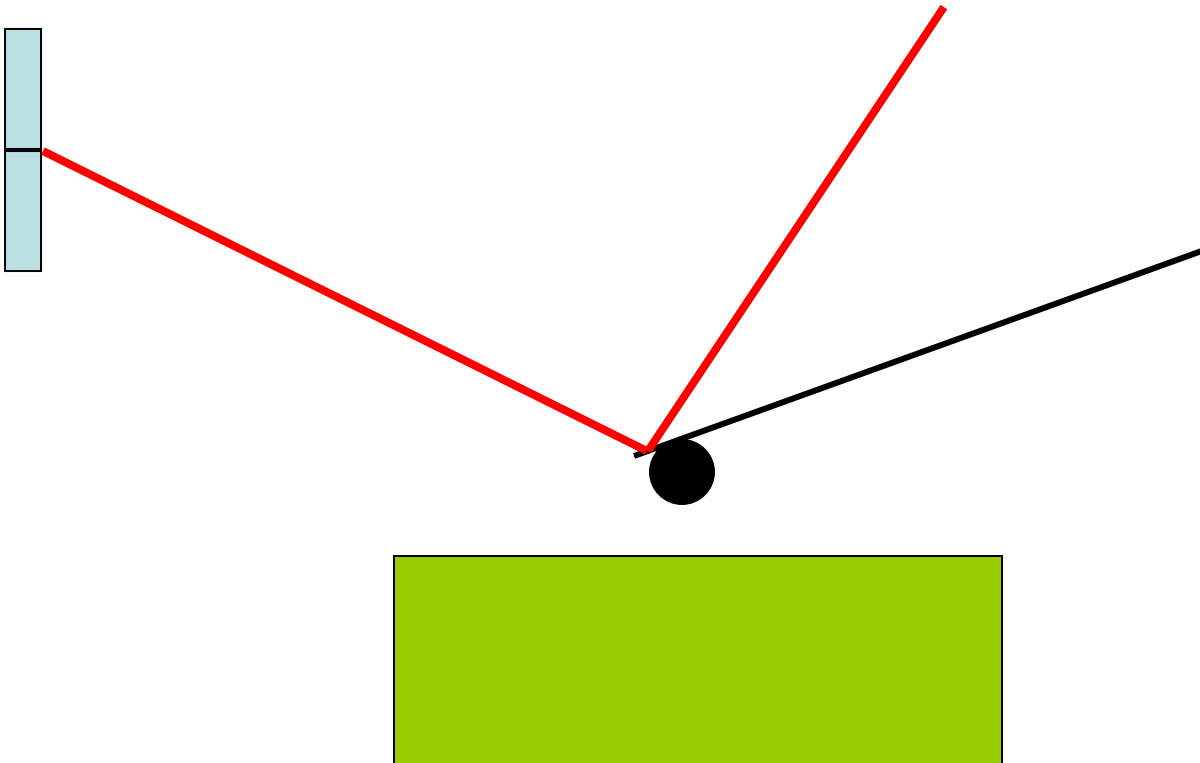
Piezo Ceramic Drive

Position
sensitive
photodiode



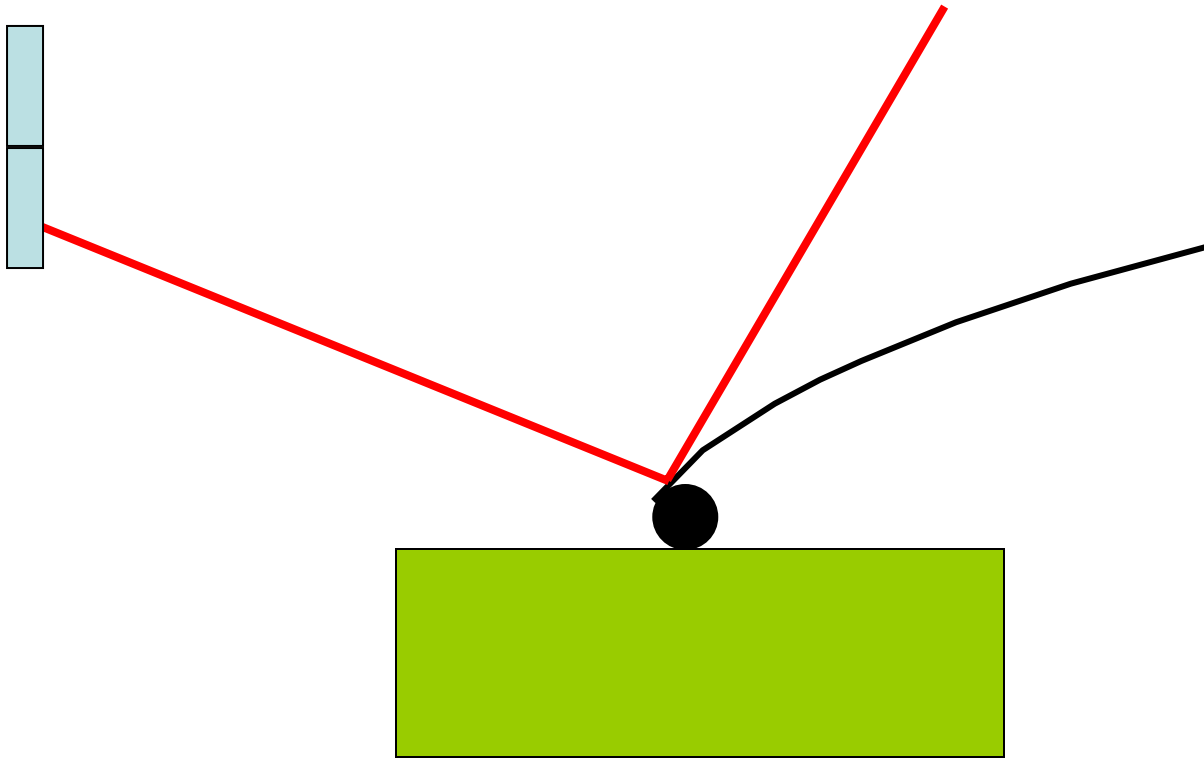
Piezo Ceramic Drive

Position
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photodiode



Piezo Ceramic Drive

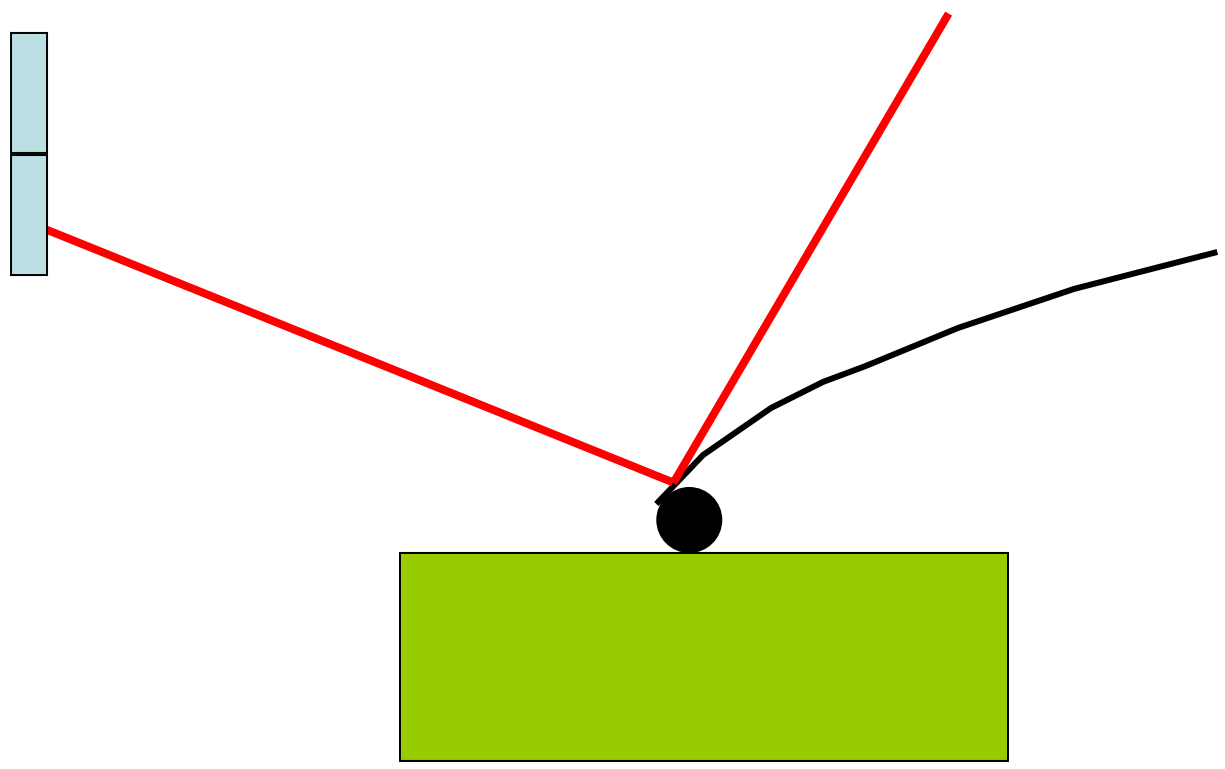
Position
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photodiode



Piezo Ceramic Drive

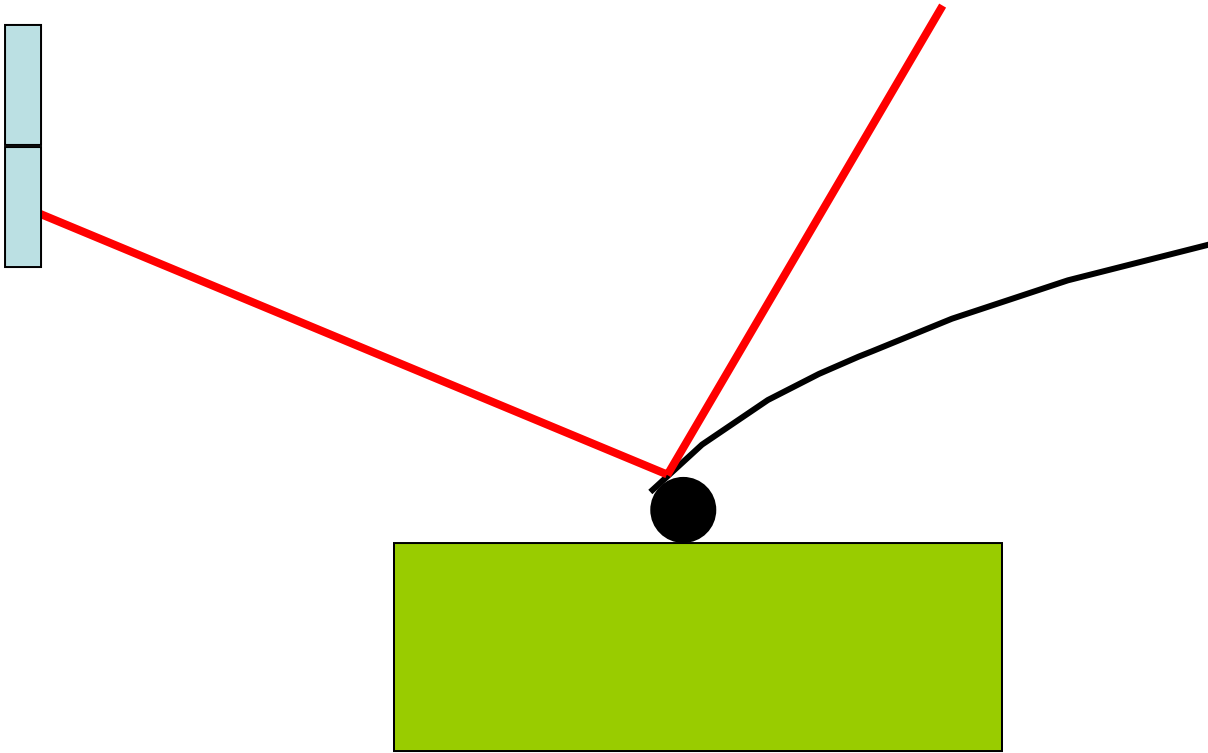
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Position
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photodiode



Piezo Ceramic Drive

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Position
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photodiode



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