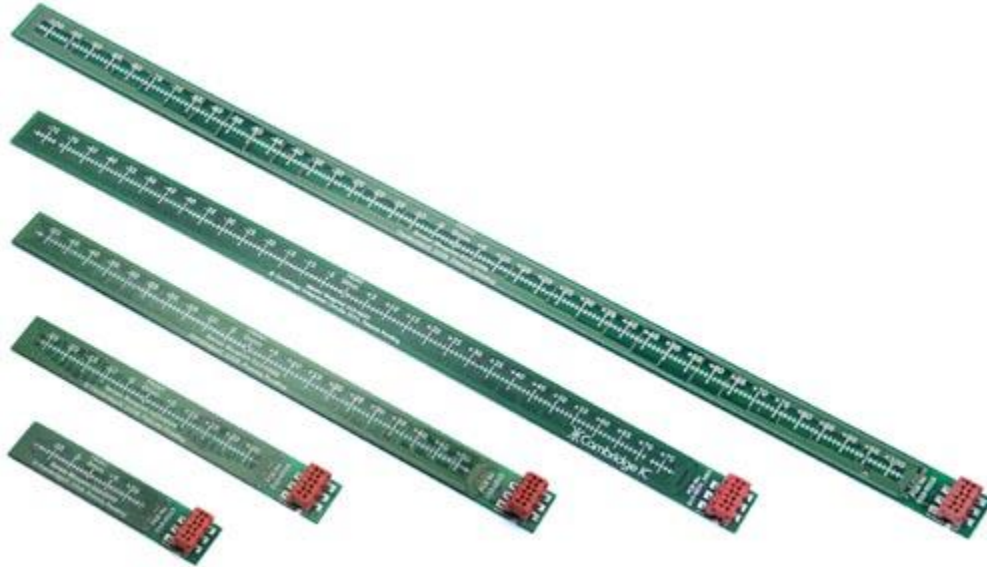
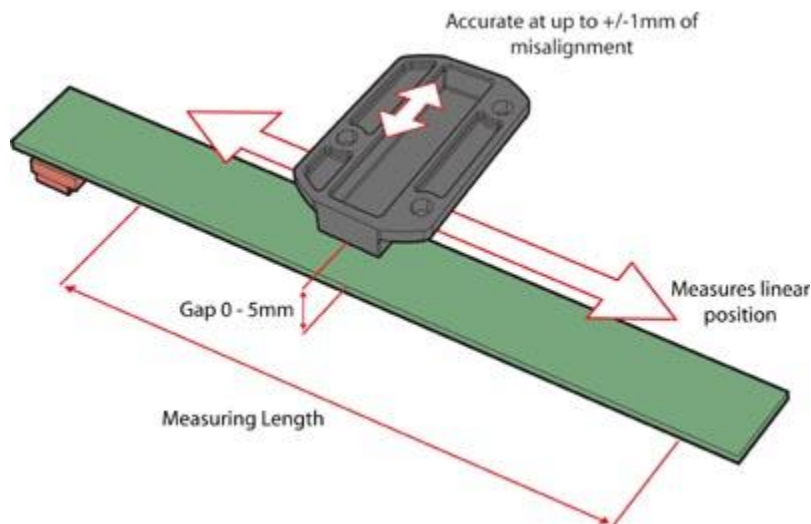


Type 1 Narrow

Type 1 sensors are robust, precise and simple. This set of sensors is also narrow - 10mm wide - which means they can fit in tight spaces. Standard sensors are available from 25mm to 300mm measuring length.



A single CAM204 Central Tracking Unit (CTU) chip can operate up to 4 Type 1 sensors, including a mix of linear and rotary.



Features

- Simple non-contact target
- Full absolute sensing
- Standard 4-layer PCB process
- Stable across temperature
- Highly repeatable

Performance

- Up to 5mm Target Gap

- $< \pm 0.25\%$ Linearity Error at optimum Target Gap
- Position change $< \pm 0.2\text{mm}$ across $-40^{\circ}\text{C} \dots 85^{\circ}\text{C}$, $\leq 3.5\text{mm}$ Target Gap
- $< \pm 0.25\text{mm}$ Position Offset Error
- Up to $\pm 1\text{mm}$ Y Misalignment
- Can be installed 2mm from aluminium sheet

Applications

- Motion control
- Actuator position feedback
- Precision front panel controls
- Valve position sensing
- Industrial potentiometer replacement
- LVDT replacement

The CTU Development Kit includes the following linear sensors: 25mm, 50mm, 100mm and 200mm.

Alternatively, assembled sensors may be purchased individually for prototyping purposes. They may be connected with the 6-way Sensor Connecting Cable part number 013-6001. Compatible development boards include the Type 1 CAM204 Development Board which operates up to 4 Type 1 sensors. For systems with only one or two sensors the Type 3&4 CAM204 Development Board is recommended (set Type to 4).