

Using the Movable Sensor

The movable sensor is a dual function sensor. It provides transmissive (sees through media) and reflective media sensing. The printer can use either sensing method, but not both at the same time.

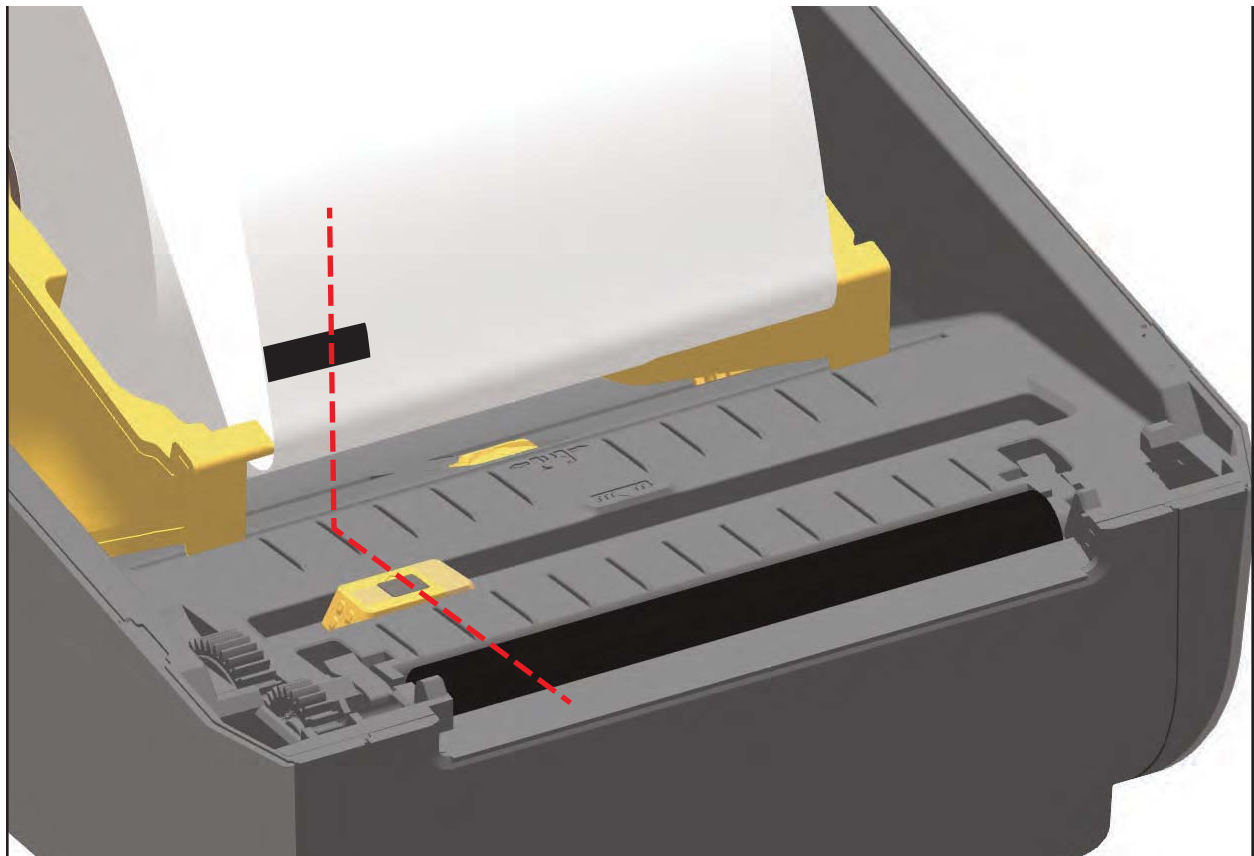
The movable sensor has a center array of sensors. This provides adjustable transmissive web (gap) sensing to positions that match legacy Zebra® desktop printer sensor locations and positions in between. This also provides for use of some non-standard media variations or irregularly shaped media.

The movable sensor allows the printer to use media with **black marks** or **notches** (holes through the media) on the back side of the media (or media liner). The sensor aligns to the middle of black marks or notches not in the center of the media roll to avoid Web/Gap sensing array.

Adjusting the Movable Sensor for Black Marks or Notches

The black mark sensing looks for non-reflective surfaces such as black marks, black lines, notches or holes on the back of the media which do not reflect the sensor's near infrared light beam back to the sensor's detector. The sensor light and its black mark detector are next to each other under the sensor cover.

Position the movable sensor's alignment arrow to the middle of the black mark or notch in the underside of the media. Sensor alignment should be set as far as possible from the edge of media but where 100% of the sensor window is covered by the mark. When printing, the media can move from side to side $\pm 1\text{mm}$ (due to media variations and edge damage due to handling). Notches cut into the side of the media can also become damaged.

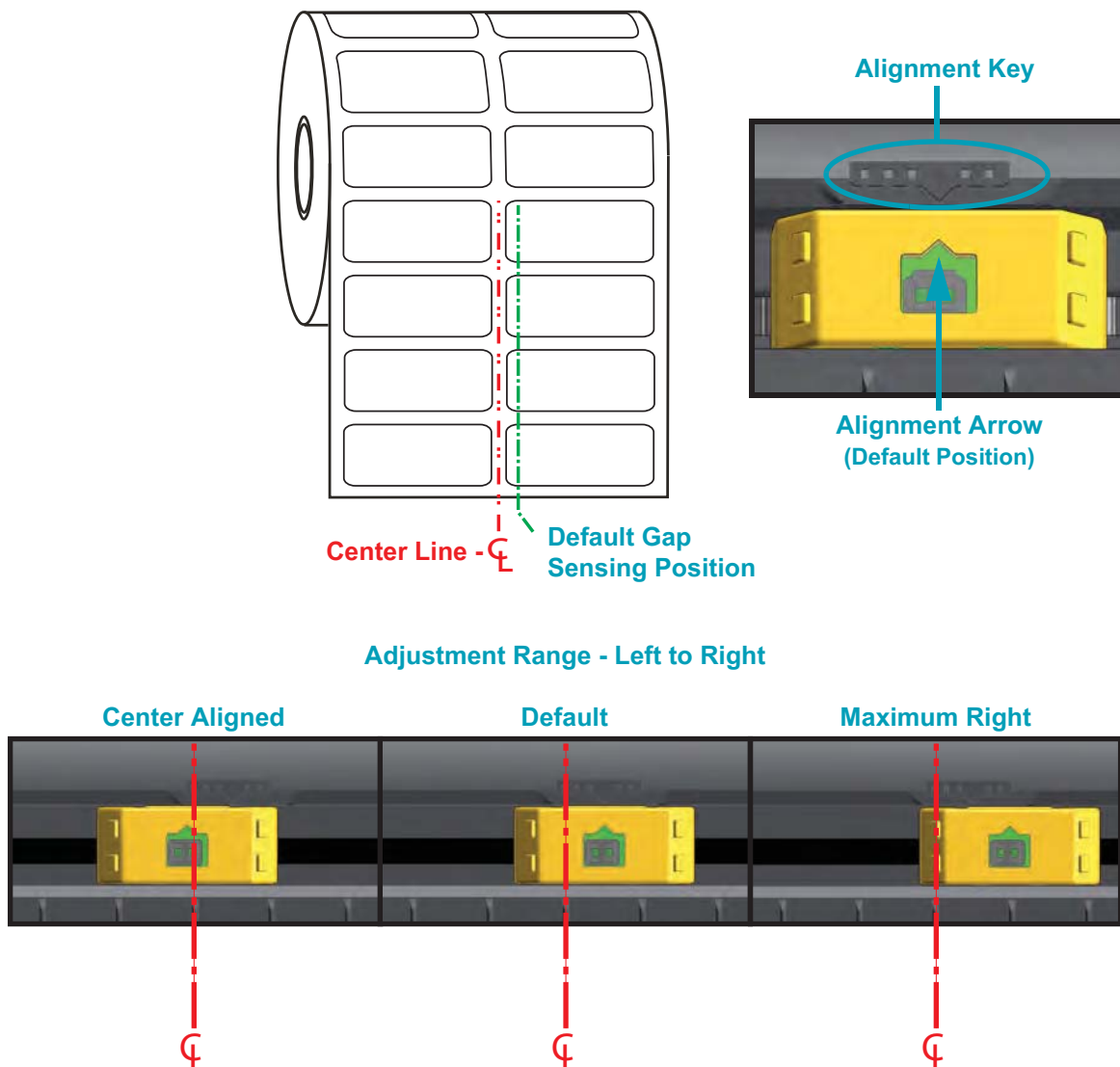


Adjusting the Movable Sensor for Web (Gap) Sensing

The movable sensor for web/gap sensing supports multiple positions.

- The movable sensor's 'Default' position is ideal for most label types.
- The adjustment range is from center to off-center positions which are ideal for printing two (2) labels side by side on a roll.
- The movable sensor adjustment range covers sensor positions use by legacy Zebra printers.

Web (Gap) sensing with the movable sensor only functions when the movable sensor's alignment arrow points to any position on the alignment key. The adjustment range is shown below.



Zebra Printer Models Fixed Sensor Position Relative to the ZD420

- **Default** — Zebra Models: G-Series™ fixed position sensors, LP/TLP 2842™, LP/TLP 2844™, LP/TLP 2042™
- **Center Aligned** — Zebra Model: LP/TLP 2742™