

IBT Belt - IOT Module

IBT Belt Tracking

IBT Belt tracking uses Active Steering. The Belt Edge Sensor is located at the top left inboard corner of the IBT drawer. While the belt is rotating it presses against a spring loaded Belt Edge Actuator. If the belt starts to creep towards or away from the actuator, the Belt Edge Sensor senses the direction and signals the control logic. The belt steering software uses the sensor input to drive a bi-directional Belt Steering Motor located inside the drawer on the left hand side. The motor rotates a cam attached to an adjustment linkage. The linkage is attached to the Steering/Tension Roll and moves the roll (in or out) in order to steer the belt. The initial coarse adjustments to the belt module are factory set and are not field adjustable. A Belt Steering Cam Sensor monitors the position of the cam.

