Precision Interfaces

Visteon has developed a new generation of precision in-vehicle knobs and buttons to meet the increasing demand for high quality switch and rotary interfaces.

Visteon’s precision interfaces are designed to radically reduce ‘wobble and sticking’ in knobs and buttons, and can enable the implementation of low-cost encoder and switch solutions.

Benefits

• Reduces the influence of the switch or encoder technology by controlling the movement path of the knob and buttons

• Produces a more precise feeling through a final force profile

• Improves the fit and finish appearance with tighter control gaps

• Reduces manufacturing costs by minimizing traditional tolerance stack-up issues with a design solution that accommodates and isolates variations

Status

✓ Production 2011
☐ Application ready
☐ Advanced development
Features

Precision rotary encoder (Customer configurable)

- Types available
  - Center push or radial press
- Torque options
  - 0.5Nm to 40Nm
- Detents options
  - Minimum 1, Max to be defined
  - Detent profile – customer defined
- Radial wobble
  - Zero
- Encoder solutions
  - Optical
- Vehicle Networking
  - LIN
  - Low speed CAN
- Illumination
  - PWM LED backlight control available

Precision buttons (Customer configurable)

- Straight push button design
- Travel 0.5mm to 3mm travel
- Force 1.5 to 3.5N
- Button guide design
  - Visteon next-generation guide design
  - Reduced gap around button (‘A’ surface)
  - No tipping, No wobble
  - Illumination
  - PWM LED backlight control available