

JANUS® HOTPass Switchable Transponder.



The Kapsch JANUS® HOTPass Switchable Transponder delivers the same high performance and functionality as Kapsch's JANUS Interior Transponder with an additional switch feature suitable for High Occupancy Vehicle (HOV/HOT) applications. While rules and regulations vary by state, HOV lanes allow for free usage of the road and may accept low occupancy vehicles willing to pay a toll to use the lane. Drivers electing to use HOV/HOT lanes, simply press the switch on the Kapsch JANUS® HOTPass Switchable Transponder to the ON position and information is reported to the roadside system and an audible tone alerts the driver that HOV status is declared. When HOV status is no longer needed, the switch can be moved to the OFF position and the transponder will continue to operate in normal electronic toll collection applications.

Features.

- Read/write compatibility with TDM protocol.
- Reads the switch position and stores last transaction and declared state.
- Stores data sent from the reader including switch position at time and date of transaction.
- Driver feedback options include an audible tone and visual light emitting diodes (LEDs) in red, amber and green.
- Large tactile switch clearly denotes current status.
- Impact resistant case.
- Mounts easily near top center of vehicle windshield interior.

Benefits.

- Provides customers with more route flexibility to utilize HOT lanes offering a less congested commute and faster, more predictable travel times .
- Customers do not need to perform cumbersome pre-registration.
- Customer can select appropriate transponder position at start of trip to avoid distracted driver issues.
- Helps agencies mitigate HOV lane performance issues and generate revenue by offering low occupancy drivers the option to use the road for a fee.

Technical specifications

Operating frequency

- 915 MHz nominal center

Dimensions (W x H x D)

- 4.0 x 2.7 x 1.0 in
- 10.16 x 6.60 x 2.54 cm

Weight

- 2.73 oz
- 78 g

Case color

- Front surface:
 - Pearl white
 - Translucent case for version with optional LED visual indicators
- Rear surface:
 - Pearl white

Driver feedback signals

- Visual: red, amber and green LEDs, audible buzzer

Data capacity

- 256 bits (including control bits for driver feedback, current switch state and history)

Data rate

- 500 kpps ± 10% (uplink/downlink)

Data format

- Manchester Keyed Carrier

Error checking

- 16 bit Cyclic Redundancy Check (CRC)

Operating temperature

- -40° C to +85° C
- -40° F to +185° F

Vibration

- SAE J1211, 1.5 g

Shock

- SAE J1211

Power source

- Internal lithium battery

Design life

- 8 years depending on usage of optional audio and LEDs

Regulatory

- FCC Part 90 and Part 15, Industry Canada RSS-137

Compatibility

- TDM protocol



Kapsch Group.

Kapsch is one of Austria's most successful technology corporations, specialized in the future-oriented market segments of Intelligent Transportation Systems (ITS), Railway and Public Operator Telecommunications as well as Information and Communications Technology (ICT). Kapsch. Always one step ahead.