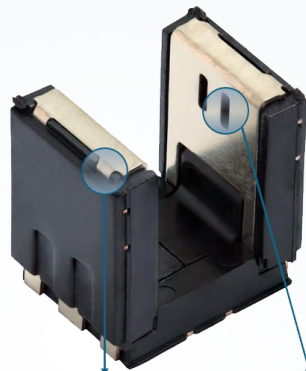
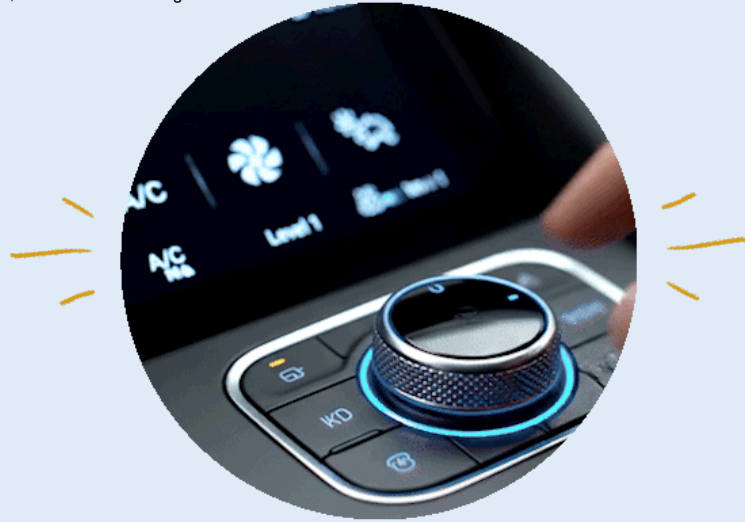


# TRANSMISSIVE SENSORS

## MINIATURE LIGHT BARRIER FOR BUTTONS AND WHEELS

Transmissive sensors feature an infrared emitter and dual phototransistor detectors arranged face to face in a compact surface-mount package.

They are ideal for critical applications such as volume and climate control knobs, as well as precise motion, speed, and direction sensing.



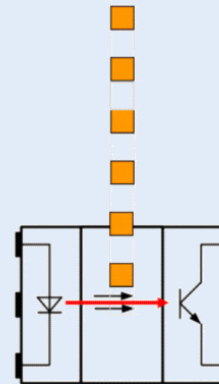
The package integrates alongside single & multiple phototransistors, each providing a distinct signal output.



Infrared Emitter



2x Phototransistors



Movement  
direction of the  
code wheel

Code wheel  
unblocked




Signal : 1

## Product Family

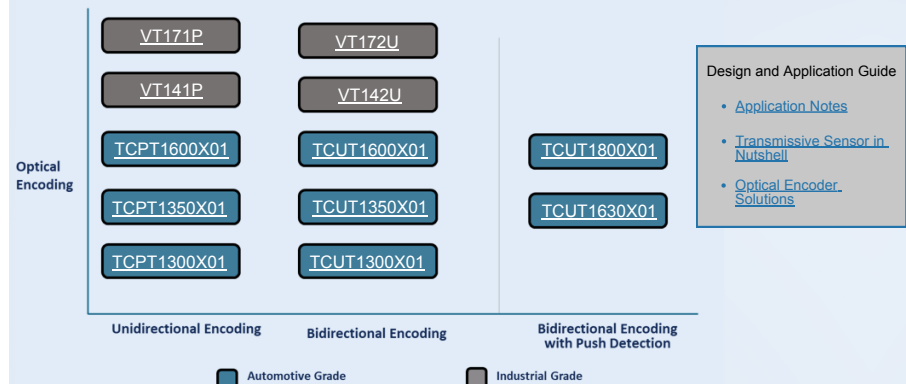
<b>TCPT1300X01</b> Single-Channel  (5.5 x 4.0 x 4.0 mm)	<b>TCPT1350X01</b> High Temp Release (125° C)  (5.5 x 4.0 x 4.0 mm)	<b>TCPT1600X01</b> High Dome  (5.5 x 4.0 x 5.7 mm)	<b>VT141P</b> Industrial-Grade  (5.5 x 4.0 x 4.0 mm)	<b>VT171P</b> Industrial / High Dome  (5.5 x 4.0 x 5.7 mm)
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Single-Channel Transmissive Sensor | Unidirectional Rotation Sensing

<b>TCUT1300X01</b> Dual-Channel  (5.5 x 4.0 x 4.0 mm)	<b>TCUT1350X01</b> High Temp Release (125° C)  (5.5 x 4.0 x 4.0 mm)	<b>TCUT1600X01</b> High Dome  (5.5 x 4.0 x 5.7 mm)	<b>VT142U</b> Industrial-Grade  (5.5 x 4.0 x 4.0 mm)	<b>VT172U</b> Industrial / High Dome  (5.5 x 4.0 x 5.7 mm)
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Dual-Channel Transmissive Sensor | Bidirectional Rotation Sensing

## Transmissive Sensors – Summary



For questions: [SensorsTechSupport@vishay.com](mailto:SensorsTechSupport@vishay.com)