

# DATASHEET



## TCS Single Space Sensor – Single Space Monitoring TCS–USS350

Every parking space is monitored in a single space parking guidance system. The sensor is installed on the ceiling above each parking space with each sensor programmed to indicate a different LED color status based upon occupancy. Normally green denotes an open space, blue a handicapped space, red an occupied space, and yellow a reserved space. During installation the sensors are physically addressed to communicate back to the zone controller. TCS powerful reporting allows real-time access to the occupancy status of every space by level, garage, or lot.



Optional external lamp



Optional colors available

### Technical data

Type: Ultrasonic Distance Measurement  
Dimensions: 4 3/4" x 4 1/4" x 1 1/4" (W x H x D)  
Measuring Frequency: 41 kHz  
Spectrum: <1kHz  
Emitting Angle: 30°  
Luminous Intensity: >10 Cd (per LED)  
Voltage: 24VDC  
Power: 16 mA  
Intake: 0.4 Watt (average)  
Data Transfer: RS485  
Operating Temperature: -4°F to +158°F  
(-20°C to +70°C)  
Protection Class: IP54 inner area  
TUV Certified

### Connection

The power and data communication is conducted through the same cable. A four conductor cable of 20 AWG.

### Function

The sensor detects occupancy status through ultrasonic distance measurement. The measured value is transmitted to the networked zone controller, and is compared to the standard ceiling height value. When a vehicle occupies a parking space the values do not match, and the zone controller transmits a "full" value to the sensor. Subsequently the indicator LED light above the parking space changes from green (unoccupied) to red (occupied). A maximum of 32 sensors can be connected to the same data line. The zone controller employs a three bus system allowing up to 96 single space sensors connected to a single controller.

### Operational data

Detection of vehicles  
Reservation, handicapped and other LED indicator lights available  
Integrated LED status indicator lights  
Optional external lamp for obstructed views  
Optimal mounting height: 9' from ground in standard sized parking space  
Flexible installation options  
Maintenance free

