

SLS *smartTUNNEL*

Product Overview

Enable item-level traceability on all shipments with the SLS smartTUNNEL. The SLS smartTUNNEL leverages the same Wave® technology seen in our smartPORTAL™ Solution that gives us the ability to maintain a very controlled read

zone in an array of environments. The Wave® antenna technology will significantly reduce the chance of tag adjacency issues in multi-line distribution center applications and will not require support from complex software algorithms. Our lightweight aluminum extrusion and entirely customizable design allows for a very tightly controlled read point with high tag volumes.



Key Features

The integrated Wave® Antennas used in the smartTUNNEL are unique in covering all three tag orientations within a user-defined zone. Our antenna design creates a wide-angle lens effect which covers all three polarizations at once and are designed to provide superior UHF zone coverage.

The smartTUNNEL from SLS is a fully integrated and durable solution which is easily implemented into existing distribution center processes.

Highlights:

- Fully integrated, plug-and-play design
- Easy to install and easily repeatable, allowing this solution to be extremely scalable.
- Custom Sizes, Colors, and Configurable Artwork
- Ability to integrate with existing conveyor line infrastructure like barcode scanners, photo eyes, and PLC systems.
- Ability to retrofit to existing conveyor

Options:

- Two color stack light with audible option
- Photo eyes to trigger read cycles
- Industrial PC Appliance with or without SLS smartTUNNEL Software
- Barcode Scanner
- Self-supporting tunnel (fixed to concrete) or Conveyor Mounted
- Compatible with most RFID Reader Manufacturer's included (but not limited to): Impinj, Alien, and Zebra.

SLS Specifications

Conveyor Spec	Up to 250 fpm with a minimum box spacing of 18"
Performance Spec	smartTUNNEL is capable of reading up to 250 tags on a conveyor moving up to 200 fpm with a box spacing of 24" (This number will vary based on the product and tags used)
Dimensions	Custom built to fit existing operation Standard Outer: 42"Lx35"Wx64"H Standard Inner: 42"Lx29"Wx30"H
Enclosure rating	IP68
Housing material	Polycarbonate
Power Required	AC 110 (Region of Installation Dependent) PoE 802.3af (Qty:1)
Total weight	200 lbs
Frequency Band	902 MHz - 928 MHz (FCC) 865 MHz - 868 MHz (ETSI)
Gain	3 dBi
Impedance	50 Ohms
Polarization	Multi-Linear Wave Antennas
Connectors	RPTNC
Protocol	MQTT, TCP/IP, FTP,
Data output format	JSON, XML

Part Number	Item Name	Description
10000331	SLS smartTUNNEL Lite (42"L x 35"W x 30"H – Inside Dimensions)	Includes Reader, Enclosure, Audible Stack Light, Installation Hardware
10000264	SLS smartTUNNEL Complete (42"L x 35"W x 30"H – Inside Dimensions)	Includes Reader, Enclosure, Audible Stack Light, Photo Eye, Cognex Scanner, UI/NUC, Installation Hardware (Software is NOT included)

Federal Communications Commission (FCC) Compliance
Industry Canada (IC) Compliance
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