

UHF OPEN TUNNEL 201

S-UHF-TUNNEL-201

RFAID™
AI-POWERED RFID SYSTEMS



Product info

- Seamless integration: can be installed on an existing conveyor belt
- No laundry flow disruption: read stacks in motion, without stopping the conveyor belt
- State-of-art reading performance, powered by the Datamars RFAID™ technology
- Read UHF tags and correctly assign them, even when spacing between stacks is limited
- Machine learning algorithms filter stray reads with an exceptional accuracy
- Available in two sizes to match different conveyor belt widths

Product Description

Datamars UHF open tunnel has been designed to work with any laundry conveyor belt. It is the perfect reading system to read clean stacks of textiles.

As the tunnel is completely open it does not interfere with the flow of textiles and its operation is transparent to the laundry process.

Based on the Datamars RFAID™ technology, machine learning algorithms filter stray reads (unwanted reading of tags surrounding the tunnel) and correctly assign tags to the proper stacks.

The tunnel is available in two sizes: Narrow, for a maximum conveyor belt width of 600 mm and Wide for conveyor belt width from 600 mm up to 800 mm. It also automatically adapts to different conveyor speeds without changing any parameter.

Built from lightweight aluminium and stainless steel, it resists the harshest laundry environments.

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Technical data

Maximum external dimensions (L x W x H)	1500 x 1200 x 1500 mm (60'' x 48'' x 60'')
Maximum internal dimensions (W x H)	550 x 500 mm (22'' x 20'')
Minimum conveyor length	3000 mm (95'')
Maximum weight (Tunnel only)	Approx. 150 kg (330 lb)
Typical distance between stacks*	600 mm (16'')
Typical conveyor speed*	Between 12 m/min (39 fpm) and 24 m/min (79 fpm)
RFID Compliances	ISO/IEC 18000-6C EPC Class I Gen 2 ETSI EN 302 208 (865 – 868 MHz) FCC part 15.247 (902 – 928 MHz)
Interface	Ethernet
Default data format	EPC followed by CRLF (Carriage Return Line Feed) characters
Operating voltage range	Single phase 100-240 V AC, 50-60 Hz
Typical power consumption	Approx. 50 W
Operating temperature	0°C to +40°C (32°F to +104°F), non-condensing

*Depending on the stack size, amount and density of tags, conveyor belt speed, etc.

Ordering information

S-UHF-TUNNEL-201-ETSI-N (narrow)	800 3075-894
S-UHF-TUNNEL-201-FCC-N (narrow)	800 3075-896
S-UHF-TUNNEL-201-ETSI-W (wide)	800 3075-895
S-UHF-TUNNEL-201-FCC-W (wide)	800 3075-897
S-UHF-TUNNEL-201-STR	- (customized structure)

NOTE: Tunnel designed to be installed on an existing conveyor. If a conveyor is needed, it shall be ordered separately.