



Confidex Corona™

Confidex Corona™ is a specific passive UHF RFID tag used in automotive production: RFID tags help control complex product mix and manage customized parts by identifying, tracking and tracing the key items in the process flow. The tag is permanently mounted on the chassis of the car being manufactured at the beginning of the process, and reliably identified at various points in the manufacturing process.

The tag is capable of withstanding high temperatures and harsh conditions throughout the production process - from the welding and paint shop to the point of final assembly. After leaving the welding shop, car bodies proceed to the paint line – the most demanding environment for the tags used. On the paint line the car is put through an electrolyte bath for corrosion prevention, followed by several layers of paint and a series of high temperature drying ovens. Under these conditions, it is critical that the RFID tag's performance does not degrade and that it retains its readability and reliability.

The Corona tag can be left on the vehicle, eliminating the need for collecting, cleaning and testing the used tags. By encoding the vehicle ID number on the tag, the solution can also be used in outbound logistics to simplify distribution of the finished cars.

In use the Confidex Corona™ has demonstrated outstanding reliability over the complete car manufacturing process, despite the complex and harsh conditions.

Product overview:

Type: EPC Global Class1 Gen2 (ISO 18000-6C) passive UHF RFID tag

Read range:
up to 10 m / 32.8 ft

Memory: EPC 128 bit; TID 64 bit,
32bit factory locked unique

Dimensions:
80 x 50 x 0.5 mm
3.15 x 1.97 x 0.02 in

Ambient temperature range:
-40°C to +220°C**
-100°F to +430°F**

**Tolerates +220°C/430°F at least
30 min