# PRODUCT DATASHEET

# **Confidex Heatwave Flag H9 Printable™**



Printable RAIN RFID tag with temperature resistance against automotive paint shop cycle process

#### **ELECTRICAL SPECIFICATION**

#### **Device type**

Class 1 Generation 2 passive UHF RFID transponder

#### Air interface protocol

EPCGlobal Class1 Gen2 ISO 18000-6C

#### **Operational frequency**

Global 865-928MHz

#### IC type

Alien Higgs™ 9

#### Memory configuration

EPC up to 496 bit; User up to 688 bit; TID 96 bit. By default the EPC is 96 bit but can be extended to 496 bit by allocating more from the 688 bit user memory.

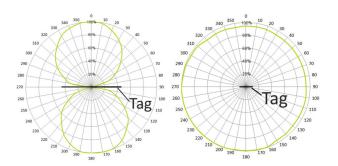
### **EPC** memory content

Unique number encoded

#### Read range (2W ERP)\*

Up to 10 m / 33 ft

#### **RADIATION PATTERNS**



#### MECHANICAL SPECIFICATION

#### Tag materials

Special film for high temperatures. No adhesive by default, attached mechanically.

#### Weight

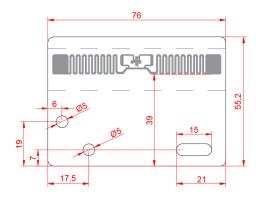
1 g

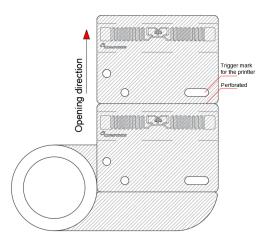
#### **Delivery format**

On reel. 1500 pcs labels on one reel.

#### **Dimensions**

76 x 55.2 mm / 3 x 2.17 in





# **ENVIRONMENTAL RESISTANCE**

## **Operating temperature**

-35°C to +85°C / -31°F to +185°F

#### Peak temperature

1 hour: +220°C / +428°F 10 min: +260°C / +500°F

#### **IP** classification

IP68

# **Bending resistance**

Withstands 50mm radius also in high temperatures

#### **Chemical resistance**

No physical or performance changes in:

- 168h Motor oil exposure
- 168h Salt water (salinity 10%) exposure
- 10min Sulfuric acid (10%, pH 2) exposure
- 10min NaOH (10%, pH 13) exposure
- 2h Acetone

Resistance against environmental conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product's final suitability for certain environmental conditions is recommended to be tested. Contact Confidex for more specific information.

<sup>\*</sup> Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). Different surface materials may have an effect on performance.

#### PERSONALIZATION OPTIONS

#### Pre-encoding

• Customer specific encoding of EPC with or without locking

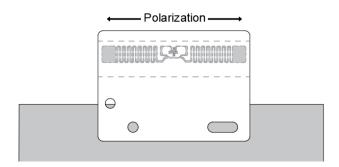
#### Visual marking

Printing of customer specific content

#### **INSTALLATION INSTRUCTIONS**

Confidex Heatwave Flag Printable™ can be attached with screws or pop rivets through Ø5mm holes. Tag shall be attached on top of metal so that the antenna part is protruded out from metal as shown in picture below. This will maximize the tag reading distance. Tag will also work when attached on plastic assets.

Polarization of tag is along its longest dimension. This should be taken into account when linear reader antennas are used.



Select the location carefully in a vehicle body or tagged item. Good placement will ensure smooth identification in every stage of manufacturing till the end of assembly line and beyond. Please contact Confidex for further assistance.

#### ORDER INFORMATION

Product number: 3004011

**Product name:** Confidex Heatwave Flag™ H9 Printable

For additional information and technical support, please contact Confidex Ltd.

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