

# PRODUCT DATASHEET

## Confidex Windshield Label™



Non-transferable tamper-evident label for car windshields

### ELECTRICAL SPECIFICATION

#### Device type

Class 1 Generation 2 passive UHF RFID transponder

#### Air interface protocol

EPCGlobal Class1 Gen2 ISO 18000-6C

#### Operational frequency

Global 860-960MHz

#### IC type

Impinj Monza 4E™

Alien Higgs 3™ (upon special request)

#### Memory configuration

With Monza 4E: EPC 496 bit; User 128 bit; TID 96 bit

With Higgs3: EPC 96-496bit; User 64-512 bit; TID 96 bit

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

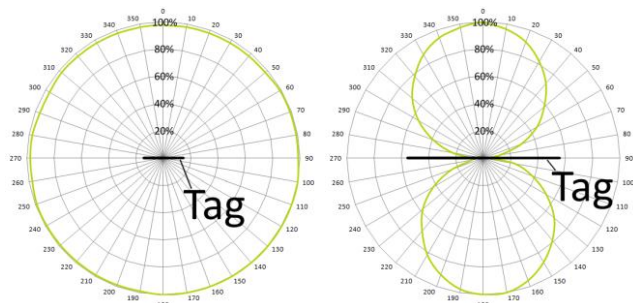
EU & US on windshield up to 8 m / 26 ft

#### Applicable surface materials\*

Glass

\* 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). EU = 865 - 868 MHz, US = 902 - 928 MHz. Different surface materials may have an effect on performance.

### RADIATION PATTERNS



### MECHANICAL SPECIFICATION

#### Tag materials

- Back side (towards windshield): PP with strong adhesion on glass. Can be ordered with static color printing.
- Front side (towards driver): Inkjet and thermal transfer printable PP. Resin ribbon recommended. Can be ordered with static color printing and black personalization.

#### Weight

1 g

#### Delivery format

1500 pcs on reel

#### Pitch on reel

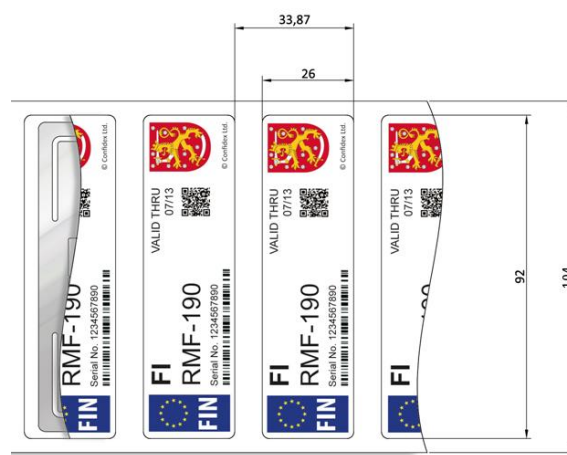
33,866 mm / 1,333"

#### Reel core inner diameter

76 mm / 3"

#### Tag dimensions

92 x 26 x 0,2 mm / 3.62 x 1.02 x 0.01 in



Labels above with promotional artwork.

### ENVIRONMENTAL RESISTANCE

#### Operating temperature

-35°C to +70°C / -31°F to +158°F

#### Ambient temperature

-35°C to +70°C / -31°F to +158°F

#### Storage condition

1 year in +20°C / 50% RH (shelf life for adhesive)

#### Expected lifetime

Years in normal operating conditions

Values in the table are the best recommendations; 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.

## PERSONALIZATION OPTIONS

### Pre-encoding

- Customer specific encoding of EPC or user memory. Locking permanently or with password. Confidex offers also data encryption when required.

### Customized dual-sided full color artwork

- Layout can include any static artwork.

### Customer specific visual printing

- Variable data like barcodes, human readable text, serial number etc. printed on the driver side of the label.

## INSTALLATION INSTRUCTIONS



Ideal installation conditions are +20°C (+68°F) / 50% RH. For exceptional conditions, please contact Confidex. Adhesive of the label will provide best adhesion in 24 hours after the installation. Bond strength can be improved with firm application pressure. Always clean and dry the surface for obtaining the maximum bond strength. Avoid touching the background adhesive.

Label antenna parts should not be in contact with metal to enable best performance of the label. Note that metallized UV-protection films have strong effect on RFID performance.

Minimum bending diameter of the Confidex Windshield Label™ is defined to be 50mm. Do not bend the label below the limit. Never touch on the location of the IC. IC chip is sensitive electrical component and can be damaged if unexpected pressure is applied on the chip.

## ORDER INFORMATION

Products are delivered by default as blank white labels without any printing.

**Product number:** 3000498

**Product name:** Confidex Windshield Label™ M4E

Following products are available upon special request:

**Product number:** 3000668

**Product name:** Confidex Windshield Label™ Higgs3

For other versions, additional information and technical support contact Confidex Ltd.

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