

# PRODUCT DATASHEET

## Confidex NFC Sticker™ for all surfaces



High quality NFC Sticker on reel format to be attached on any surface materials including metal

### ELECTRICAL SPECIFICATION

#### Device type

NFC Forum Type 2

#### Air interface protocol

ISO 14443A

#### Operational frequency

13,56 MHz

#### IC type

NXP NTAG203

Infineon my-d move NFC

NXP Mifare 1K Classic (not NFC forum Type 2 compliant)

#### Memory configuration

NTAG203: User memory 144 Bytes

my-d move NFC: User memory 128 Bytes

Mifare 1K Classic: 1k Bytes

#### Read range\*

Mobile phone up to 45mm

Fixed reader up to 90mm

#### Applicable surface materials\*

Stickers are background insensitive and can be used on all surfaces, including metal.

\* Read ranges are measured in laboratory environment and there can be some variation in real application. Also used surface material and IC type might affect the read range.

### MECHANICAL SPECIFICATION

#### Tag materials

Printable white synthetic face layer, resin ribbon recommended.

#### Background adhesive

Permanent adhesive for general purpose use. Releasable adhesive as option upon special request. With releasable adhesive stickers can be attached for example on mobile phones and removed without any marks. Green Confidex promotional stickers comes with releasable adhesive.

#### Weight

1 g

#### Delivery format

2000 pcs on reel

#### Pitch on reel

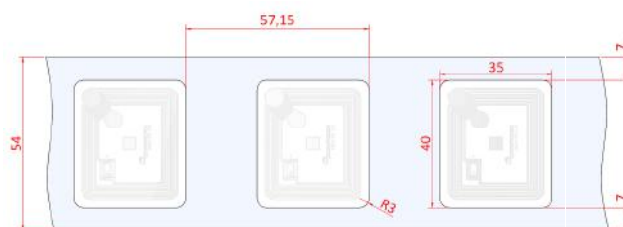
57,15 mm / 2.25"

#### Reel core inner diameter

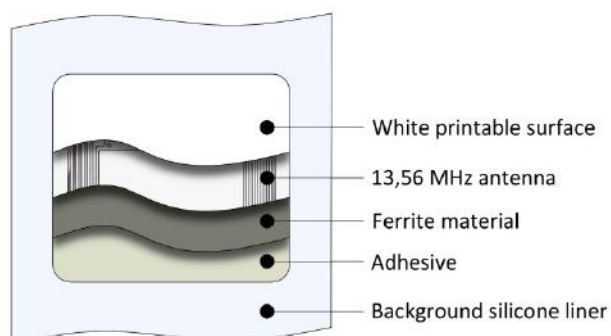
76 mm / 3"

#### Tag dimensions

40 x 35 x 0,4 mm / 1.57 x 1.38 x 0.015 in



#### Tag structure



## ENVIRONMENTAL RESISTANCE

### Operating temperature

-20°C to +60°C / -4°F to +140°F

### Ambient temperature

-20°C to +60°C / -4°F to +140°F

### Water resistance

Good, tested 5 hours in 1m deep water (IP68)

### Chemical resistance

No physical or performance changes in:

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

### 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.

### Artwork printing

- Full color artwork is printed on top of the product.

### Visual data

- Customer specific layout including variable text, numbers, barcodes etc.

## INSTALLATION INSTRUCTIONS

Ideal installation conditions are +20°C (+68°F) / 50% RH. For exceptional conditions, please contact Confidex. Bond strength can be improved with firm application pressure. Always ensure clean surface for obtaining the maximum bond strength.

During attachment to the identified item, please avoid touching the background adhesive. If the location on the asset needs to be changed, please use a new tag instead of re-placing the used one; the adhesion will suffer from the re-placement.

Minimum bending diameter of the Confidex NFC Sticker™ is defined to be 50mm. Do not bend the label above 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

**Product number:** 3000569

**Product name:** Confidex NFC Sticker™ MF1k (white, background insensitive)

**Product number:** 3000571

**Product name:** Confidex NFC Sticker™ MDM NFC (white, background insensitive)

**Product number:** 3000573

**Product name:** Confidex NFC Sticker™ NTAG203 (white, background insensitive)

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

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