

# PRODUCT DATASHEET

## Confidex Casey™



Disposable high performing label for supply chain and logistics applications.

### ELECTRICAL SPECIFICATION

#### Device Type

RAIN RFID / EPCglobal Gen2v2

#### Operational frequency

Global 865-928MHz

#### IC type

Impinj Monza R6-P™

#### Memory configuration

EPC 128/96 bit; User 32/64 bit; TID 96 bit

#### EPC memory content

Unique number encoded as a default

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

On plastic up to 16 m / 52 ft

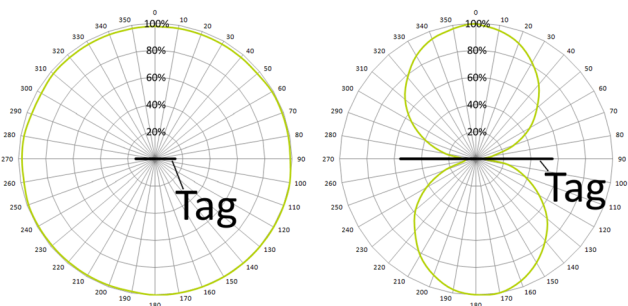
On cardboard up to 12 m / 39 ft

#### Applicable surface materials\*

Non-metallic surfaces.

\* 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.

### RADIATION PATTERNS



### MECHANICAL SPECIFICATION

#### Tag materials

Printable white synthetic face layer, resin ribbon recommended.

#### Background adhesive

Permanent adhesive for general purpose use

#### Weight

0,6 g

#### Delivery format

2000 pcs on reel

#### Pitch on reel

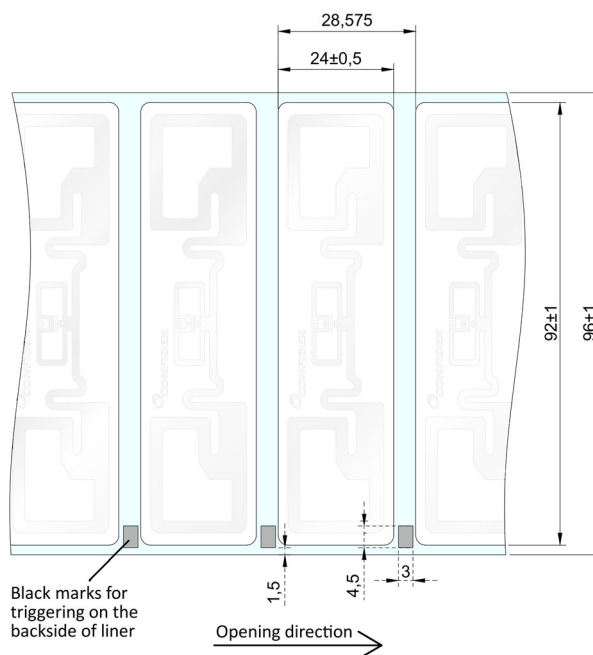
28,575 mm / 1,125"

#### Reel core inner diameter

76 mm / 3"

#### Tag dimensions

92±1 x 24±0,5 x 0,2 mm / 3.62 x 0.94 x 0.01 in



Black marks for triggering on the backside of liner

Opening direction →

## ENVIRONMENTAL RESISTANCE

### Operating temperature

-35°C to +85°C / -31°F to +185°F

### Ambient temperature

-35°C to +85°C / -31°F to +185°F

### Water resistance

IP68

### Washing resistance

Industrial pressure washing not recommended

### Chemical resistance

No physical or performance changes in:

- 168h Sulfuric acid (10%, pH 2) exposure
- 168h Motor oil exposure
- 24h Salt water (salinity 10%) exposure
- 2h NaOH (10%, pH 13) exposure
- 30min 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.*

## INSTALLATION INSTRUCTIONS



Most recommended location for the Confidex Casey™ label is in a position, where the structure of the identified item provides protection against mechanical stresses.

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 Casey™ 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.

## PERSONALIZATION OPTIONS

### Pre-encoding

- Customer specific encoding of EPC or user memory. Locking permanently or with password.

### Customized printing

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

## ORDER INFORMATION

**Product number:** 3002400

**Product name:** Confidex Casey™ MR6-P

For additional information and technical support contact Confidex Ltd.

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