

PRODUCT DATASHEET

Confidex eKanban SLC™

Single label for Small Load Carrier (SLC) compliant with VDA recommendations 4994 and 5501.

GENERAL

Project

Confidex eKanban SLC™ label

Datasheet number

D012311

Version history

Version	Modification
V001	Initial version
V002	Reel size to 600 pcs/reel, bad unit marking, lifetime
V003	Added peak temperature
V004	Name and definition update

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

Memory configuration

With Monza 4E EPC 496 bit; 128 bit user memory

Read range (2W ERP)*

EU: up to 5 meters on a plastic box

Applicable surface materials*

Plug-in label for plastic load carriers, also compliant with ESD variants.

* 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.

MECHANICAL SPECIFICATION

Label materials

Thermal transfer printable paper face layer, high performance wax/resin ribbon recommended. Face color yellow pantone 100 C. Perforation and trigger notch between labels. No adhesive behind the label (non-permanent plug-in/pocket variant).

Delivery format

On reel, 600 pcs/reel

Pitch on reel (nominal)

208 mm / 8.19"

Reel core inner diameter

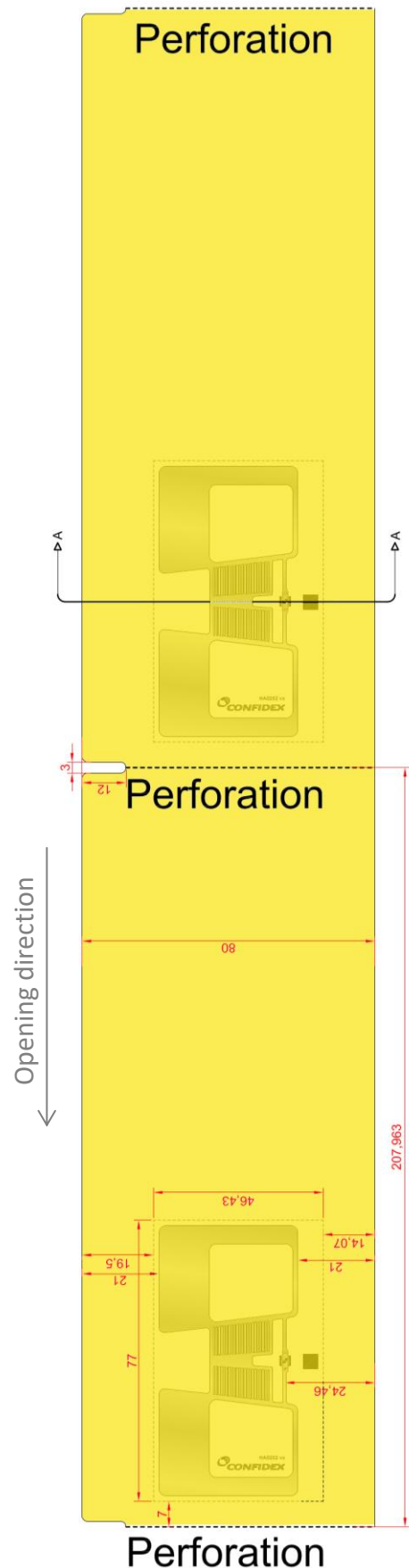
76.2 mm / 3"

Bad label marking

Non-functional labels are marked with "XXX".

Label dimensions

208 mm x 80 mm x 0.2 mm / 8.19" x 3.15" x 0.01"



Cross Section A - A



ENVIRONMENTAL RESISTANCE

Operating temperature

-20°C to +70°C / -4°F to 158°F

Peak operating temperature

+85°C / 185°F for 6 hours

Ambient temperature

-20°C to +70°C / -4°F to 158°F

Storage condition

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

Expected lifetime

Meant for short term use, in normal operating conditions lifetime can be years

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.

Customer specific visual printing

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

INSTALLATION INSTRUCTIONS



The label is delivered with no adhesive on the backside, so additional adhesive or plastic pockets are required for label attachment.

Minimum bending diameter of label 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: 3001985

Product name: Confidex eKanban SLC™

For additional information and technical support, contact Confidex Ltd.

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