kapsch >>>
challenging limits

OMNIAIR ®
A
CERTIFIED
RFID–6C SPD TOLLING
2021091402

Kapsch TrafficCom

ISO 6C Headlamp Transponder.

Non-transferable tamper-proof ISO 6C label for vehicle headlamps and windshields.

Pre-encoding
- Customer-specific encoding of EPC or user memory. Locking permanently or with password.
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Customized full color label
- Layout can include any static 4-color artwork. Customer-specific visual printing
- Variable data like barcodes, human readable text, serial numbers etc.

Chemical resistance
No physical or performance changes in:
- 168h Salt water (salinity 10%) exposure
- 24h NaOH (10%, pH 13) exposure
- 168h Motor oil exposure
- 168h Sulfuric acid (10%, pH 2) exposure
- 168h Windshield washing fluid exposure
- 168h Antifreeze exposure
- 168h Car shampoo exposure
- 168h Gasoline exposure
- Small exposure of car wax

Features & Benefits.
- Conforms to ISO 18000-6c, EPC and 6CTOC standards.
- Read / Write capable
- Excellent read performance
- Designed specifically for the tolling market
- Two-part label optimized for headlamp placement

Product Highlights.

Device type
UHF RFID / EPCglobal Gen2v2

Operational frequency
Global 860-960MHz

IC type
Impinj Monza 4E

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

EPC memory content
EPC1: Unique number encoded according to customer specification
EPC2: Unique number encoded according to customer specification
EPC3: Unique number encoded according to customer specification

Read range (2W ERP)
ETSI: up to 9 m / 27 ft
FCC: up to 10.5 m / 34 ft

Applicable surface materials*
Glass or plastic

Weight
<1 g

Delivery Format or Standard Packaging
- 1000 transponders per roll
- 4 rolls per box
- 4000 transponders per box
- 48 boxes per pallet
- 192,000 transponders per pallet

Transponder materials
- Back side (facing headlamp): Aluminum antenna with acrylic adhesive
- Front side (facing out): Normally no printing on transponder portion of label. Inkjet and thermal printable transparent label. Buddy label is standard on the headlamp transponder for printing purposes.

Pitch on reel
22,86 mm / 0,9 in

Reel core inner diameter
76 mm / 3 in

Transponder dimensions
90 x 12 x 0,2 mm / 3.54 x 0.45 x 0.008 in (Main Label)
90 x 14 x 0.2 mm / 3.54 x 0.55 x 0.008 in (Buddy Label)

Operating temperature
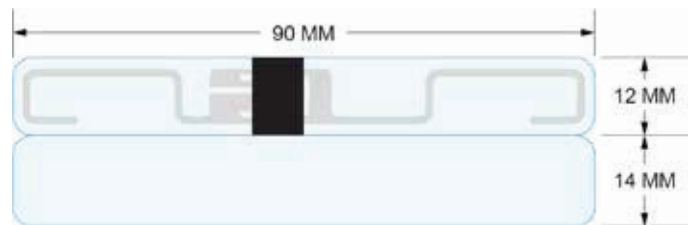-35°C to +85°C / -31°F to +185°F

Ambient temperature
-35°C to +85°C /-31°F to +185°F

Storage condition
1 year in +20°C / 50% RH

Expected lifetime
Years in normal operating conditions

Kapsch TrafficCom

Kapsch TrafficCom is a globally renowned provider of transportation solutions for sustainable mobility.
Our innovative solutions in the application fields of Tolling, Traffic Management, Demand Management and Mobility Services contribute to a healthy world without congestion.
We have brought projects to successful fruition in more than 50 countries around the globe.

With our one-stop solutions, we cover the entire value chain of our customers, from components and design to the implementation and operation of systems. As part of the Kapsch Group and headquartered in Vienna, Kapsch TrafficCom has subsidiaries and branches in more than 30 countries. It has been listed in the Prime Market of the Vienna Stock Exchange since 2007 (ticker symbol: KTCG).

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* This product contains technology licensed from Amtech Systems LLC. A list of these patents can be found at www.ktcsales.net/components

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