



MAXDURA® KEG DUAL

Tagging Beer Kegs with Optimum Reliability and Unique NFC Enhancements

MAXDURA®KEG DUAL hard tags are the dual-frequency (UHF/RAIN-RFID and NFC) solution of choice for reliably identifying and tracking beverage kegs, gas cylinders and other curved metal returnable transport items (RTI) under bulk reading conditions.

MAXDURA KEG DUAL tags are specifically designed to withstand the harshest treatment. They come in ABS casings and are designed to be permanently glued to the inner face of the keg's collar. Unlike welding, this method does not affect the organoleptic properties of the liquid stored in the keg. There, they are optimally protected, do not interfere with hand transport and allow a lifting rod to be inserted. This specific tag placement also contributes to superior reading characteristics that allow 100% reading rates even when palettes or truckloads with up to 50 kegs pass an UHF RFID gate. Abolishing the need for welding, MAXDURA KEG tags are suitable for building into new kegs as well as for retrofitting existing ones.

The additional NFC functionality enables keg suppliers to connect with their customers in an innovative way and provide them with mobile digital experiences at the tap of a smartphone. In addition, NFC enables customers to conveniently access keg ID data. MAXDURA KEG DUAL tags come equipped with Impinj Monza R6-P RAIN-RFID ICs and NXP ICODE SLIX2 NFC ICs that both comply with all relevant standard and offer excellent performance.

MAXDURA KEG DUAL tags can benefit from the capabilities of Smart Cosmos: Smartrac's IoT platform can securely record and manage a complete set of unique transponder data (e.g. UID no., order no., batch no., or yield). The platform enables full traceability of delivered RFID products and provides reliable quality assurance.

Smartrac's inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment.

Overview

Operating Frequency

860-960 MHz (ETSI/FCC)
and NFC V5

Integrated Circuit (IC)

Impinj Monza R6
NFC V5: SLIX 2

Dimension

53 × 43 × 22 mm

Material and Color

ABS, Light grey

International Standards

- ▶ EPC Class 1 Gen 2
ISO 18000-6C

Application Areas

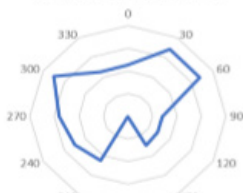
- ▶ Beer Keg Management
- ▶ Gas Cylinder Management
- ▶ RTI for On-metal Application
- ▶ RTI for Non-metal Application

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Technical Features		Sales Code
IC + Memory*	Impinj Monza R6 EPC Class 1 Gen 2; ISO 18000-6C Protocol compliant EPC 96 bit, TID 48 bit Data retention of 50 years; write endurance 100,000 cycles NFC V5: SLIX 2	3007416
Core Size	53 × 43 × 22 mm	
Read Range	@920 MHz: On metal: 10m; on metal keg: 5m @868 MHz: On metal: 8m; on metal keg: 3m @13,56 MHz: On metal and on metal kegs: 7cm	
Operating Mode	Passive (battery-less transponder)	
Operating Temperature	-20°C to + 70°C	
Storage Temperature	-40°C to + 85°C	
Adhesive	Glue (for detailed information please contact us)	
Conformity	Radio Equipment Directive 2014/53/EU, REACH, RoHS	
Standards	Vibration test according to IEC 68.2.6; Shock test according to IEC 68.2.29 Impact test according to IEC 62262-IK07 The keg withstands typical cleaning cycles including the use of chemicals such as Na OH.	
Protection Class	IP68 / 2m / 24h	

backscatter radiation pattern ON STEEL KEG 868 MHz
with another keg stacked on



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