



Durable circular hard tag with global tuning designed for QUICK application onto "cylindrical" metallic objects like Beer Kegs & Gas cylinders via its high performance foam adhesive backing, which takes shape of the curvature of the metallic surface, eliminating the need for time consuming/expensive spot welding or epoxy affixing. Laser engravable

PHYSICAL SPECIFICATION

Face Stock

Engineered Plastic

Tag Sizes

Appx Dia 42mm, Height: 10 mm (tolerance ± 0.5 mm)

Adhesive

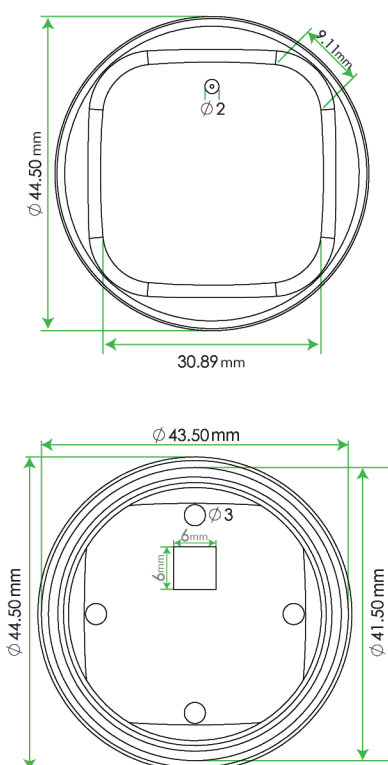
High performance foam tape
Optional: Metal Ring

Delivery Format

Single pieces

Weight

Appx 10 g



RF SPECIFICATION

Air interface protocol

ISO/IEC 18000-63:2015 and EPCglobal Gen2v2 compliant

Operational frequency

ETSI: 865 - 868 MHz | FCC: 902 - 928 MHz

IC type*

NXP UCODE 9xe

Memory configuration

EPC 128-bit, TID 96-bit

Read range (2W ERP)**

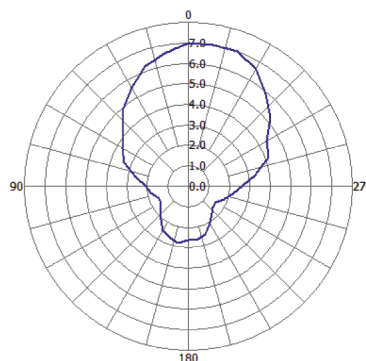
With Metal Ring: Up to 5.5m/ 18ft

Without Metal Ring: Up to 6m/ 19.68ft

Applicable Surface Materials

Metallic surfaces

RADIATION PATTERN



ENVIRONMENTAL RESISTANCE

Operating Temperature

-40°C to +85°C / -58°F to +185°F

Adhesive Service Temperature

-40°C to +148°C / -40°F to +298.4°F

Application Temperature

+10°C to +38°C / 50°F to +100.4°F

IP Classification

IP68

Chemical Resistance

No physical or performance changes in:
 - 168 h Salt water (salinity 10%) exposure
 - 168 h Motor oil exposure
 - 12 h NaOH (10%) exposure
 - 30 min Acetone exposure

Ideal Storage Condition

1 year in +23°C / 73.4°F, 50% RH

Expected Lifetime

Years in normal operating conditions

PERSONALISATION OPTIONS

Pre-encoding

- Customer specific encoding of EPC memory

Customised Laser Engraving

- Customer specific artwork including logo & text, numbers, barcodes etc.

ORDER INFORMATION

Part Number

RF.HT.CyIT.E.U9xe | RF.HT.CyIT.F.U9xe

Packaging

100 Per/Box;
4 Inner/Outer

PRODUCT INSTALLATION

WITH WELDING



WITH ADHESIVE BACKING



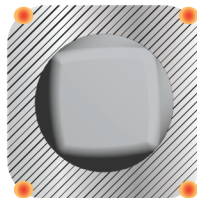
- Adhesive: The tag is delivered with an optional adhesive tape attached. While mounting the tag ensure clean and dry surface to achieve maximum bond strength. Ideal application temperature is from +10°C to 38°C / +50°F to +100.4°F and installation beyond this temperature range is not recommended. Bond strength can be improved by applying pressure firmly while mounting the tag.
- Mechanical Fixing: The application which requires robust tag installation can be achieved by MIG welding metal ring on the application surface.



Metallic tag Holder - top view

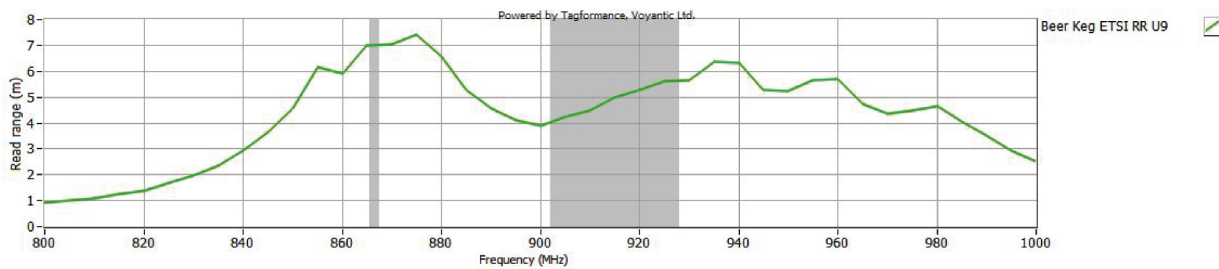


Side view



Minimum 4 MIG welds at 4 corners are required

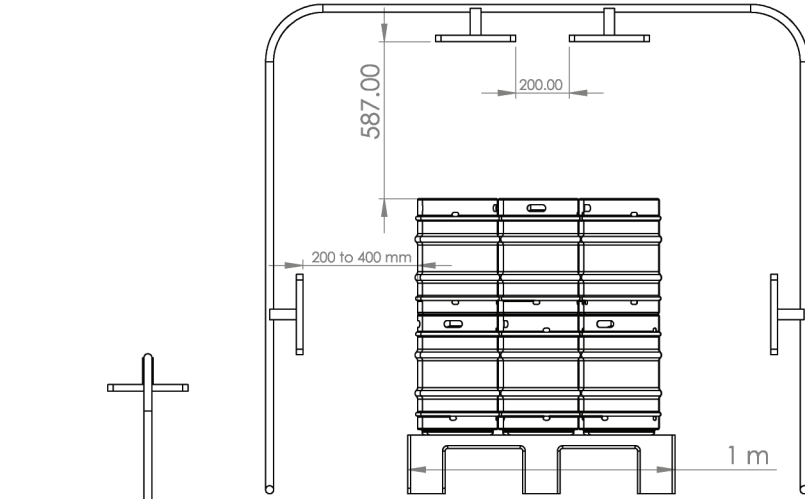
READ RANGE GRAPH



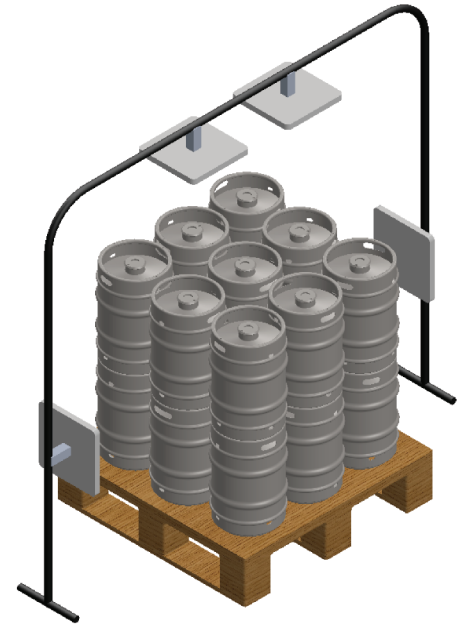
RECOMMENDED ANTENNA SETUP

We recommend the below fixed reader Antenna setup to obtain the maximum performance with our Cyltag for Beer Keg tagging application.

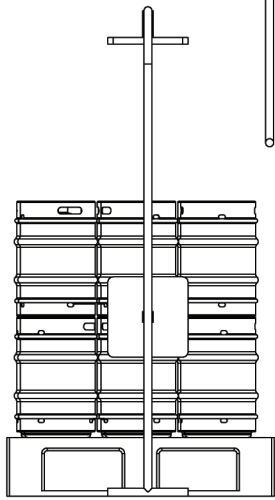
Antenna gain: 12dbi or higher
Reader receive sensitivity: -84 or better



Entry & Exit View



Isometric View



Side View

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
DRAWN	Shashi Bhushan	SIGNATURE	DATE			TITLE: Ant and Cyltag 4 Ant , 3x3x2 = 18 kegs	
CHK'D						DWG NO.	
APP'VD						Cyltag RFID setup	
MFG					MATERIAL:	A4	
Q.A					WEIGHT:	SCALE 1: 20	SHEET 1 OF 1

* Other IC's available on request
** The indicated read range values are measured in our laboratory testing environment, where antennas with optimum directivity are used with maximum allowed operating power. Different surface materials and environments may exhibit different results.