



### LF AND UHF RFID TRANSPONDERS FOR TAGGING METAL RETURNABLE TRANSPORT ITEMS

- **Durable** – built to withstand the rigors of reusable container processing
- **Enhanced efficiency** – enable simultaneous reading of multiple containers, decreasing processing time while increasing accuracy
- **Optimized** – specifically designed for tagging metal kegs and cylinders

Keg Tag transponders enhance the inventory tracking and lifecycle management of cylindrical returnable transport items (RTI), such as beverage kegs, chemical drums and gas cylinders. Radio frequency identification (RFID) technology from HID Global can help improve operational efficiency, while ensuring safe container transport and return. Anti-collision technology speeds processing, allowing readers to communicate with multiple tags in a single pass. At the same time, information stored in each RFID tag empowers more accurate, efficient asset management.

Keg Tag transponders may be adhered with industrial glues, or, for rugged-duty environments, welded using an optional steel ring. The RFID tags are built to withstand rigorous washing and sterilization processes. Durable plastic housings guard the enclosed electronics against exposure to liquids and harsh chemicals, as well as fluctuations in temperature.

Low frequency Keg Tag transponders integrate seamlessly into many existing

inventory and tracking systems. Housed in durable ABS plastic, they enable efficient near-proximity communication between RTI containers and RFID readers at key processing steps, and over the lifecycle of each container.

Ultrahigh frequency transponders better enable real-time inventory, while slashing processing time. HID UHF Keg Tag devices allow accurate accounting of entire pallets – even full truckloads – of containers in seconds. The unique design is optimized to facilitate reliable inventory tracking amidst a dense field of objects, even when items are filled with liquids. Each container can be counted and identified as a truck pulls away from a distribution center, and again when the truck arrives at its destination. This enables full visibility not only in the warehouse, but also during transportation and on customer sites.

The durable housings of each HID UHF keg transponder are slightly curved along one axis for improved fit on round surfaces.

#### TECHNOLOGY HIGHLIGHTS:

- Anti-collision enables simultaneous reading of multiple tags
- Optional steel ring for weld mounting (most reliable fixation method)
- Low frequency (LF), 123 kHz
  - Durable ABS housing
  - Near-proximity read range
  - Up to 2048 bit EEPROM
- Ultrahigh frequency (UHF)
  - Broadband for international use 860 to 956 MHz (EU, US, JP)
  - Read range up to 26.2 ft (8 m)
  - Up to 512 bit EEPROM
- Curved for optimal fit to kegs and cylinders (flat versions also available)

**APPLICATION AREAS:**

- Beer kegs
- Chemical drums
- Metal gas cylinders

**SPECIFICATIONS**


HID can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials.

	Keg Tag				OM RTI Transponder	InLine Ultra Curve
<b>Base Model Number</b>	623970	624970	623970-001	624970-001	6A3980	6A7982
<b>ELECTRONIC</b>						
<b>Operating Frequency</b>	123 kHz				865-956 MHz (EU, US, JP)	
<b>Chip Type</b>	Hitag S				Monza 3	Monza 4QT
<b>Memory</b>	256 bit EEPROM	2048 bit EEPROM	256 bit EEPROM	2048 bit EEPROM	96 bit EPC	128 bit EPC, 96 bit TID, 512 bit EEPROM
<b>Anti-Collision</b>	Yes					
<b>Reading Distance</b>	Dependent upon reader, environment and application				Up to 22.9 ft (7 m)	Up to 26.2 ft (8 m)
<b>PHYSICAL</b>						
<b>Dimensions</b>	Ø 1.32 x 0.51 in (Ø 33.6 x 12.9 mm)		Ø 1.71 x 0.51 in (Ø 43.6 x 12.9 mm)		3.5 x 1.5 x 0.6 in (88 x 37 x 14.5 mm); 17.7 in (450 mm) curve radius	
<b>Mounting Method</b>	Glue		Weld			
<b>Affixes To</b>	Beverage kegs		Steel kegs or gas bottles			
<b>Housing Material</b>	ABS		ABS, steel ring			PC /ABS, steel ring
<b>Color</b>	Grey				Blue	
<b>Weight</b>	0.26 oz (7.5 g)		0.35 oz (10 g)		0.5 oz (15 g)	
<b>CHEMICAL AND MECHANICAL</b>						
<b>Water</b>	IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h					IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h
<b>Withstands Exposure To</b>	Mineral oil, petroleum, salt mist, vegetable oil; up to 80% humidity at 158° F (70° C)					
<b>Environmental Test Conditions</b>	68° F (20° C), 100 h					
<b>Vibration</b>	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]					
<b>Shock</b>	IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]					
<b>Impact</b>						IEC 62262-IK08
<b>Axial/Radial Force</b>						1000 N, 10 sec
<b>THERMAL</b>						
<b>Storage</b>	-40° to +185° F (-40° to +85° C), 1x1000h				-40° to +158° F (-40° to +70° C), 1x1000 h	-40 to +176°F (-40 to +80°C)
<b>Operating Temperature</b>	-13° to +185° F (-25° to +85° C)				-22° to +158° F (-30° to +70° C)	
<b>Shock/Fatigue</b>	-40° to +185° F (-40° to +85° C), 100 x 5 min with 30 sec transition					
<b>OTHER</b>						
<b>Standards</b>	ISO 17364				UHF EPC Class 1 Gen 2, ISO 18000-6C, ISO 17364	
<b>Options</b>	Custom embossed logo or tag color					
<b>Warranty</b>	2 Years					

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