

EXO Keg Tag

UHF RFID transponders for tagging curved 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



EXO 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 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.

EXO Keg Tag transponders mount via welding on steel kegs. The RFID tags are built to withstand rigorous washing and sterilization processes, including the use of caustic soda. Durable, double injected, full plastic housings guard the enclosed electronics against exposure to liquids and harsh chemicals, as well as fluctuations in temperature.

RAIN (UHF) transponders enable real-time inventory, while slashing processing time. HID UHF EXO 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.

RAIN / NFC combo tags extend the potential applications by combining the best of both worlds. Long-distance logistic applications in the warehouse, and simple user interaction via mobile phone at the consumer / recipient side.

The durable housings of each HID UHF EXO keg transponder are slightly curved, for optimal fit on round surfaces.






TECHNOLOGY HIGHLIGHTS:

- Anti-collision enables simultaneous reading of multiple tags
- Highly durable mount via welding on steel
- Designed to withstand harsh washing cycles, including caustic soda
- RAIN (UHF)
 - Broadband for international use
 - 860 to 960 MHz (EU, US, JP)
 - Read range up to 32.8 ft (10 m)
 - Optional combination with NFC, up to 2560 bits EEPROM
- Curved for optimal fit to kegs and cylinders (flat versions also available)

APPLICATION AREAS:

- Beer kegs
- Chemical drums
- Metal gas cylinders

| | EXO Keg (UHF) | | EXO Keg Inline Combo (UHF + HF) |
|--|---|--|---|
| |  |  |  |
| Base Model Number | 6M6982-102 | 6F1988-102 | 6PC982-102 |
| | ELECTRONIC | | |
| Operating Frequency | 865-928 MHz | | 13.56 MHz + 865-928 MHz (Global) |
| Chip Type | M730 | Monza R6 | M730 + ICODE SLIX2 |
| Memory | 128 bit EPC + 96 bit TID | 96 bit EPC + 96 bit TID | 128 bit EPC + 96 bit TID (UHF) + 2560 bits user memory (HF) |
| Anti-Collision | Yes | | |
| UHF Reading Distance (2 W reader ERP, free space) | Up to 32.8 ft (10 m) | | |
| | PHYSICAL | | |
| Dimensions | 3.5 x 1.4 x 0.6 in (88 x 37 x 15 mm) | 2.04 x 1.02 x 0.83 in (52 x 26.5 x 21.4 mm) | 3.5 x 1.4 x 0.6 in (88 x 37 x 15 mm) |
| Curve Radius | 450 mm (larger kegs) | 126 / 163 mm (smaller kegs) | 450 mm (larger kegs) |
| Mounting Method | Weld | | |
| Affixes To | Steel Kegs | | |
| Housing Material | PA (Polyamide) | | |
| Weight | 0.70 oz (20 g) | | |
| Color | Gray | | Warm Gray or Blue |
| | CHEMICAL AND MECHANICAL RESISTANCE | | |
| Water | IP68, 6.6 ft (2 m) x 24 h | | |
| Withstands Exposure To | Mineral oil, petroleum, salt mist, vegetable oil, caustic soda 5%; up to 80% humidity at 158° F (70° C) | | |
| Environmental Test Conditions | 68° F (20° C), 100 h | | |
| Vibration | IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h] | | |
| Shock | IEC 60068-2-27:2008 [40 g, 18 ms, 6 axis, 2000 times] | | |
| Impact | IEC 62262-IK08 | IEC 62262-IK07 | IEC 62262-IK08 |
| Axial/Radial Force | 1000 N, 10 sec | | |
| | THERMAL | | |
| Storage | -40° to +185° F (-40° to +85° C) | | -40° to +176° F (-40° to +80° C) |
| Operating Temperature | -40° to +185° F (-40° to +85° C) | | -40° to +176° F (-40° to +80° C) |
| Shock/Fatigue | -40° to +185° F (-40° to +85° C), 100 x 5 min with 30 sec transition | | |
| | OTHER | | |
| Standards | UHF EPC Class 1 Gen 2 | | |
| Options | Laser engraving | | |
| Box Size | 240 pcs. | 400 pcs. | 240 pcs. |
| Warranty | 2 Years | | |



For more information, contact tagsales@hidglobal.com



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