Poly Tag®

Low and high frequency disc-shaped RFID tags with extreme impact resistance, ready for outdoor use



Poly Tag passive contactless radio frequency identification (RFID) transponders deliver reliable performance in a cost-effective housing that stands up to rugged conditions. Each heavy-duty disc is waterproof, highly chemical and shock resistant, and withstands peak temperatures up to 212° F (100° C). The yellow Poly-Tag versions are flame resistant according to UL 94 V-0 and available with ATEX/IECEX certificates for use in potentially explosive environments of mining, gas and dust. Blank yellow version may be laser engraved according to customer's certifications as needed.

Poly Tag devices are housed in field-proven, high-impact PA6. This nylon thermoplastic shell absorbs the daily bumps and jolts of industrial environments, while protecting the electronics within. Exceptional toughness, chemical resistance and abrasion resistance assure consistent communications with RFID readers, and reliable performance in automation and manufacturing applications.

Low frequency (LF) Poly Tag discs perform on any flat surface. They offer reliable, cost-effective tagging for near-proximity reader applications, with available data storage of 64-bit user capability.

The high frequency (HF) Poly Tag disc offers anti-collision technology for faster data processing, higher user memory, and an improved read range over LF discs. Chip options for NFC or HID Trusted Tag® are available to implement secure "proof of presence" applications like guard tours or maintenance checks using standard NFC phones as readers.

The ultra-high frequency (UHF) Poly Tag disc enables longer read ranges and simultaneous reading of multiple tags, making it ideal for asset tracking applications. Poly Tag UHF tag can be used for both metal and non-metallic assets to achieve the same global (ETSI and FCC) performance.

For additional disc-tag options, the HID IN Tag™ family also includes heavy-duty tags, in low frequency, high frequency and UHF configurations. For other applications, consider ultra-thin HID Epoxy Disc or indoor World Tag™ transponders.



KEY BENEFITS:

- Durable housing – withstands shock, impact and vibration; waterproof; resistant to chemical exposure
- ATEX/IECEX certified flame resistant options for use in hazardous environments
- Heat tolerant – during storage, industrial processing and daily use
- Versatile – mounts securely to metal, plastic or wood with screws or tethered from the mounting hole
- Cost-effective – excellent size to performance ratios

APPLICATION AREAS:

Automation and manufacturing

- Processing boxes
- Production equipment
- Maintenance and Inspection

ASSET TRACKING AND LOGISTICS

- Outdoor equipment e.g. furniture, playground items, or walls
- Oil & Gas, mining industry
- Plastic bins
- Proof of Presence (e.g. guard tour)

	Poly Tag®						
							
Base Model Number	601131-010	629131-012	629131-014	629131-014-EX (ATEX)	6H5131-101	6H9131-010	CP20681
	ELECTRONIC						
Operating Frequency	125 kHz	13.56 MHz					865-928 MHz (Global)
Chip Type	Unique	ICODE SLIX2			HID Trusted Tag	NTAG 216	M830
Memory	64 bit read-only	2560 bit user memory			8 KB	888 Bytes user memory	128 bit EPC
Anti-Collision	No	Yes					
Reading Distance	Dependent upon reader, environment and application				Proximity (NFC Tap)		Up to 10 ft (3.1 m)
	PHYSICAL						
Dimensions	Ø 1.34 x 0.31 in (Ø 34 x 8 mm)						
Mounting Method	Screw-on						
Fixation Hole Size	Ø 0.22 in (5.6 mm)						Ø 0.27 in (6.9 mm)
Affixes To	Plastic, wood, glass, metal						
Housing Material	PA6 - high impact - glass fiber reinforced						
Color	Black		Yellow		Black		
Weight	0.27 oz (7.8 g)						0.33 oz (9.4 g)
	CHEMICAL AND MECHANICAL						
Water	IP69K, IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h						
Withstands Exposure To	Mineral oil, petroleum, salt water, vegetable oil; 90% humidity at 194° F (90° C)						
Flame resistance	UL 94 HB		UL 94 V-0		UL 94 HB		
Vibration	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]						MIL-STD-810H
Shock	IEC 60068-2-27:2008 [40 g, 18 ms, 6 axis, 2000 times]						MIL-STD-810H
Axial / Radial Force	800 N / 500 N, 10 sec						
Impact	IEC 62262-IK07						IEC 62262-IK11
Drop Test	100 times - 5.9 ft (1.8 m)						
	THERMAL						
Storage	-40° to +194° F (-40° to +90° C), 1000 h						-40° to +185° F (-40° to +85° C), 700 h
Operating	-40 °to +185° F (-40° to +85° C)			-40 °to +176° F (-40° to +80° C)	-13° to +185° F (-25° to +85° C)	-13° to +158° F (-25° to +70° C)	-40° to +185° F (-40° to +85° C)
Shock/Fatigue	-22° to +194° F (-30° to +90° C), 50 x 10 min with 30 sec transition						MIL-STD-810H, Method 516.8
Peak	212° F (100° C), 100 h						
	OTHER						
Standards		ISO 15693, ISO 18000-3, NFC Type 5			ISO/IEC 14443A, NFC Forum Tag Type 4	ISO/IEC 14443A, NFC Forum Tag Type 2	UHF EPC Class 1 Gen 2, ISO 18000-6C
Certifications				ATEX, IECEx, UKEX			
Options	Alternative chips e.g. MIFARE® Classic, MIFARE® DESFire®, custom logo or color, laser engraved serial number						Laser Marking, Encoding
Box Size	800 pcs.						
Warranty	2 Years						

hidglobal.com

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Europe, Middle East, Africa: +353 91 506 900
Asia Pacific: +852 3160 9800 | Latin America: +52 55 9171 1108
For more global phone numbers click here

Supports GEN2X

I M1 Ex ia I Ma
II 1 G Ex ia IIC T6 Ga
II 1 D Ex ia IIIC T85°C Da
-60°C ≤Tamb ≤ +75°C

For more information, contact tagsales@hidglobal.com

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