

SPECIAL RFID TAG SLEEVE TAG



APPLICATIONS

- Industrial Applications
- Outdoor Applications
- Offshore Platforms
- Chemical Areas

FEATURES

- UHF, HF or LF Frequency
- Robust PA6 Nylon Housing
- Mounting with Cable Ties or Wire Loop
- Perfect Protection against Shock, Pressure and UV

RFID OPTIONS

- UHF: ISO/IEC 18000-6C
- HF: ISO 14443A | ISO 15693
- LF: ISO 11784/85

PRODUCT DESCRIPTION

The RFID Sleeve Tag from iDTRONIC is perfectly suited for cable, cylindrical containers or plastic pipe identification. The transponder can be easily attached to those products by cable tie or wire loop. The RFID tags are waterproof and the housing provides high resistance to aggressive liquids, delivering reliable performance and reading stability across fluctuating temperatures. The transponder is available as UHF, HF or LF version.

A wide range of personalization options are available as well as different colors. Standard colors are blue and yellow. Other colors such as green, red or black are available on request.

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Operating Frequencies	UHF: 840 – 960 MHz HF: 13.56 MHz LF: 125 kHz
Reading Range	Depends on environmental condition, chip type and reader
Electrostatic Discharge	±5 kV, 2 times

MECHANICAL SPECIFICATIONS

Dimensions	27 × 20.5 mm Height: 0.9 mm Holes: 0.9 × 0.2 mm (2 on each long side and 1 on each short side)
Weight	5±1 g
Housing Material	PA6 (Nylon)
Housing Colours	Blue, Black, Red, Yellow, Green
Mounting Options	Using Standard Plastic or Metal Cable Binders

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	- 40 °C to + 85 °C
Storage Temperature	- 40 °C to + 90 °C (1.000 h)
Peak Temperature	+ 140 °C (10 h), + 130 °C (100 h)
Temperature Shock	40 °C, + 90 °C, 5 min. soaking time, 30 sec. transition, 100 cycles
Protection Class	IP 68
Humidity	up to 90 % r.H. @ 90 °C, 100 h
Chemical Resistance	Aqueous solution of salts, alcohol, hydrochloric acid (10 %), fuel B, 25 % ammonium chloride
Shock Resistance	IEC 68.2.29 : Sin half wave, 30 g, 18 ms, 1100 each direction, +X, X, +Y, Y, +Z, Z
Vibration Resistance	IEC 68.2.6: Sinusoidal, 6 g, 10 200 Hz, linear, 1 Hz/sec., 8 h per axis, X,Y,Z

PERSONALIZATION OPTIONS

- Laser Engraving
- Encoding (Standard Encoding / NDEF Encoding / Crypto Encoding)
- Excel Sheet with Encoding Details
- Sorted Packaging

AVAILABLE ICS

UHF: 840 – 960 MHz

IC TYPE	MEMORY	MODE
Higgs® 3	512 bits	EPC Global Gen2 and ISO/IEC 18000-6C

HF: 13.56 MHz

IC TYPE	MEMORY	MODE
NXP MIFARE Ultralight®	512 bits	ISO 14443 A
NXP MIFARE Ultralight® C	1536 bits	
NXP MIFARE Classic® 1K	1024 Bytes	ISO 14443 A
NXP MIFARE Classic® 4K	4096 Bytes	
NXP MIFARE® DESFire® 2K	2 kByte	ISO 14443 A (1-3)
NXP MIFARE® DESFire® 4K	4 kByte	
NXP MIFARE® DESFire® 8K	8 kByte	
NXP I-Code SLI	128 Bytes	ISO 15693
NXP I-Code SLI-S	256 Bytes	
NXP NTAG 213/215/216	144 Bytes 504 Bytes 888 Bytes	ISO 14443 A

LF: 125 kHz

EM 4200	8 Bytes	ISO 11784/85
NXP Hitag 1	32 Bytes	HITAG 1
NXP Hitag 2	256 Bytes	ISO 11784/85
NXP Hitag S256	32 Bytes	ISO 11784/85
NXP Hitag S2048	256 Bytes	

APPLICATION EXAMPLES

OFFSHORE APPLICATIONS



The Sleeve Tag of iDTRONIC is especially suitable for harsh environments on offshore platforms.

The robust nylon housing of the sleeve tag is very resistant to shocks, vibrations and Fuel B thanks to the IP68 Protection Class.

It can be securely attached to pipes or other devices with a cable tie.

CHEMICAL AREAS



The Sleeve Tag of iDTRONIC is especially suitable for harsh environments at chemical areas.

The robust nylon housing of the sleeve tag is very resistant to chemicals like aqueous solution of salts, alcohol, hydrochloric acid (10 %), fuel B, 25 % ammonium chloride.

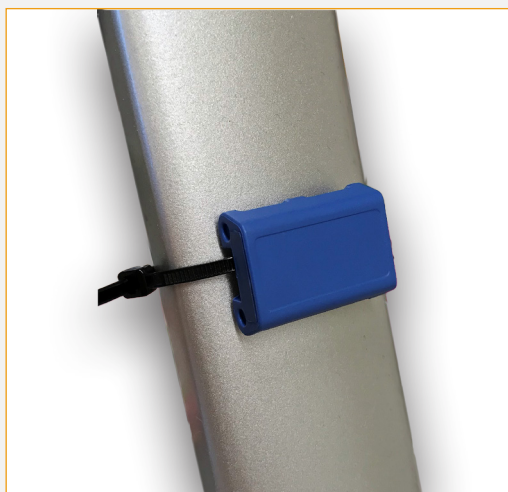
It can be securely attached to pipes or other devices with a cable tie.

PRODUCT PICTURES

**TAG WITH CABLE TIE
AND THE HOLES**



**TAG MOUNTED
WITH CABLE TIE**



MECHANICAL VIEW



ORDER CODES

COLOR	UHF: 840 – 960 MHz	HF: 13.56 MHz	LF: 125 kHz
Blue	ST-SVT-XX-BU	ST-SVT-XX-BU	ST-SVT-XX-BU
Yellow	ST-SVT-XX-YL	ST-SVT-XX-YL	ST-SVT-XX-YL
Black	On Request	On Request	On Request
Red	On Request	On Request	On Request
Green	On Request	On Request	On Request

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