

## Accessory

### Remote Antenna Accessory for HF-0405 Controller

# HF-0405-ANT-XX

#### FEATURES

Remote antenna designed for applications with space constraints.

Remote antenna extends 1 m from HF-0405 RFID controller.

Gold plated SMA connectors.

Easy installation, reduces antenna integration time.

Supports 13.56MHz iCODE 1, ISO 15693 and 14443A tags (transponders).

#### Tags compatible with HF-0405 readers:

HMS series tags  
LRP series tags and labels  
ISO 15693 tags and labels  
ISO 14443A tags and labels



HF-0405-ANT-01, -06

Escort Memory Systems HF-0405-ANT-XX Series remote antennas are patented external passive antennas that can be mounted remotely at a distance of up to 1 meter from the HF-0405 controller. These antennas are designed for applications where space is limited. These remote antennas are sold as an accessory for the HF-0405 controller and are easily attached to the surface of the HF-0405. All remote antennas feature the same read/write properties as the HF-0405 including the ability to interrogate LRP and HMS series tags from Escort Memory Systems.

The HF-0405-ANT-01 is a rectangular antenna for high temperature, metallic environments that provides a reading range of up to 15 mm. The HF-0405-ANT-03 is a compact sized tubular antenna that provides a reading range of up to 35 mm. The HF-0405-ANT-06 is a rectangular antenna that provides a reading range of up to 50 mm.

Typical applications include pharmaceutical packaging, disk drive manufacturing, automated control of conveyer systems and other applications where absolute data reliability is a requirement and space limited.

#### SPECIFICATIONS FOR HF-0405-ANT-01/-03/-06 MODELS

##### Air Protocols

iCODE 1  
ISO 15693  
ISO 14443A

Compliance  
FCC, CE

Enclosure Rating  
IP67

##### Operating Temperatures

HF-0405-ANT-01:  
-40° to 130° C (-40° to 266° F)  
HF-0405-ANT-03/-06:  
5° to 35° C (41° to 95° F)

##### Storage Temperatures

HF-0405-ANT-01:  
-40° to 150° C (-40° to 302° F)  
HF-0405-ANT-03/-06:  
-20° to 49° C (-4° to 120° F)

##### Vibration Resistance

IEC 68-2-6. Test FC 1.5mm, 10 to 55 Hz, 2 hours each axis

##### Shock Resistance

IEC 68-2-27. Test EA 30 G, 11ms, 3 shocks per axis

##### Humidity

100% non-condensing

##### Dimensions

HF-0405-ANT-01 Remote antenna:  
Retangular, 30x40x12mm  
HF-0405-ANT-03 Remote antenna:  
Tubular, 18mm, M18 thread.  
HF-0405-ANT-06 Remote antenna:  
Retangular, 30x40x12mm

##### Weight

60 g/2.25 oz



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## HF-0405-ANT-XX

### APPLICATIONS

Manufacturing  
Work in Progress (WIP)  
Material Handling

### RANGES FOR HF-0405-ANT-03\*

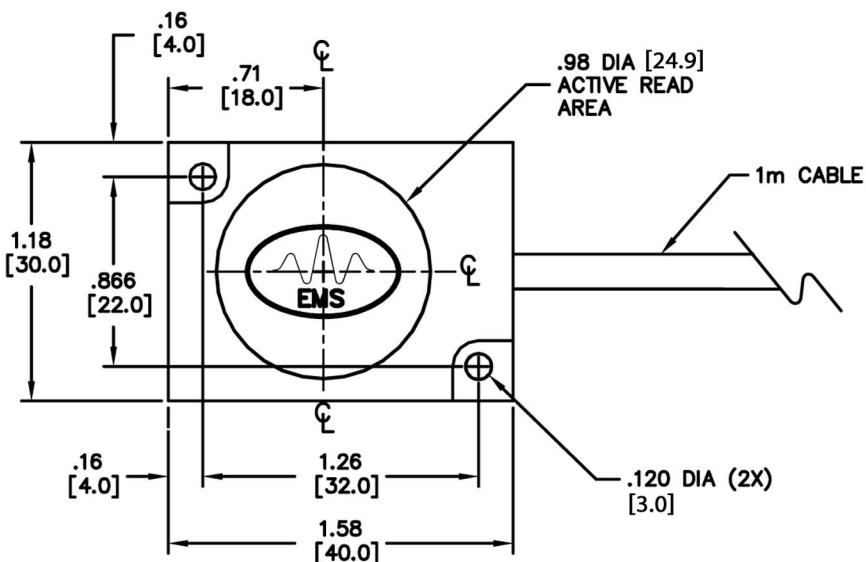
Tag	R/W Range
HMS108LT	6mm
HMS108	8mm
HMS112	10mm
HMS125	17mm
HMS138V	25mm
HMS150	25mm
LRP125	22mm
LRP125S	19mm
LRP250	35mm
LRP250S	27mm

### HF-0405-ANT-01/06\*

Tag	R/W Range
HMS108LT	7mm
HMS108	9mm
HMS112	11mm
HMS125	22mm
HMS138V	35mm
HMS150	35mm
LRP125	33mm
LRP125S	25mm
LRP250	50mm
LRP250S	33mm

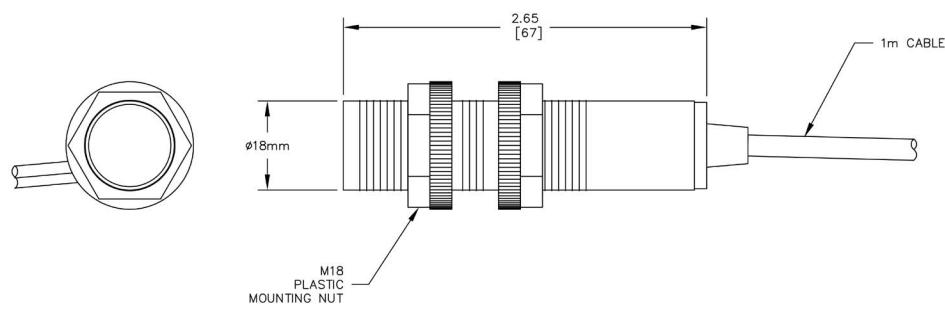
\*Range values are typical; proximity to metal, electrical EMI and EMF may reduce range. All range values shown are for tags mounted on non-metallic surfaces.

### MECHANICAL DRAWINGS FOR HF-0405-ANT-01/06



in/mm

### MECHANICAL DRAWINGS FOR HF-0405-ANT-03



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