

Versa Trak



Functional Specifications

| | |
|---------------------------------------|--|
| RF air protocol | EPC Class 1 Gen 2; ISO18000-6C |
| Operating frequency | UHF 902-928 MHz (US); 866-868 MHz (EU) |
| IC type | Alien Higgs-3 |
| Memory configuration | 96-bit EPC ; 512-bit user memory; 64-bit TID |
| Functionality | Read / write (user programmed); full duplex protocol |
| Memory – expected read / write cycles | 100,000 cycles at 77°F (25°C) |
| Data retention | Up to 50 years ¹ |
| Warranty(limited) | 1 year |

Performance Characteristics

| | |
|--|-------------------|
| Read range on-metal (2W ERP) ² | Up to 26 ft (8 m) |
| Read range off-metal (2W ERP) ² | Up to 13 ft (4 m) |
| Polarization | Linear |

Physical Specifications

| | |
|-----------------|---|
| Material | Industry Grade Polymer |
| Mounting system | High performance adhesive |
| Color | Standard color – gray, other colors available |

Environmental and Industry Compliance

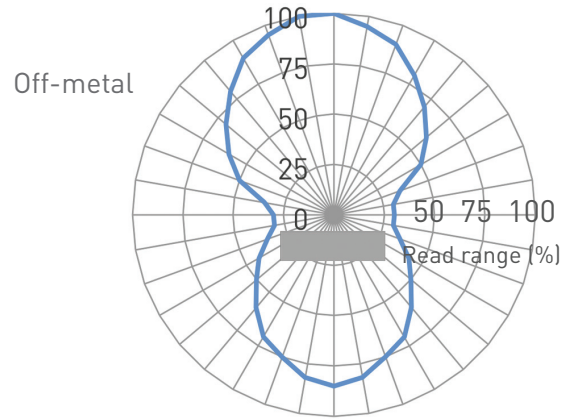
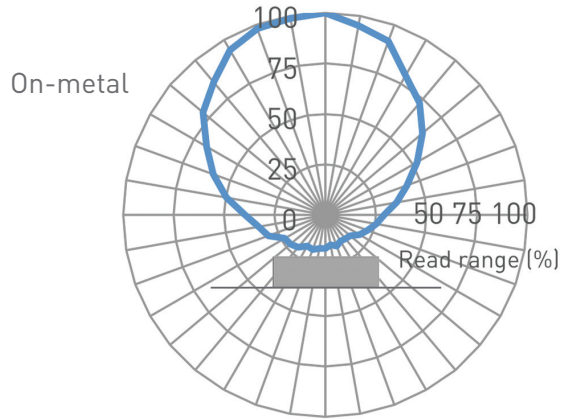
| | |
|------------|--------------------------------------|
| RoHS&REACH | EU Directive 2011/65/EU, EC1907/2006 |
|------------|--------------------------------------|



¹ The chip data retention is based on chip operating under general environment conditions.

² Actual read range may vary based upon use case and antenna power.

Radiation Pattern



Operational and Environmental Specifications

Operational temperature

| | |
|--|---|
| Cold | -40°F (-40°C) |
| Dry heat (Long term, days/weeks/years) | +185°F (+85°C) |
| Thermal shock | -22°F to 185°F (-30°C to +85°C); cycled |

Application temperature

| | |
|--------------------------------------|----------------|
| Cold | -40°F (-40°C) |
| Dry heat (Short term, minutes/hours) | +185°F (+85°C) |

Humidity

| | |
|----------------------|-----------------------|
| Operational humidity | 5%-95% non-condensing |
| Storage humidity | 5%-95% non-condensing |

Shock (drop)

3 ft (1 m) to concrete/granite up to 200 cycles

Vibration

MIL-STD-810G

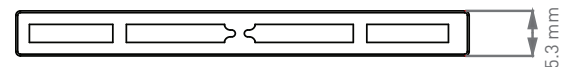
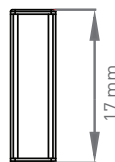
Compression strength

26.1 psi (180 kPa)

IP classification

IP54

Product Dimensions and Weight



Dimensions (mm)

50.3 x 17 x 5.3

tolerance

+/- 0.35

Dimensions (in)

1.98 x 0.67 x 0.21

tolerance

+/- 0.014

Weight

0.11 oz (3 g)

Order information

X0350-US011-H3

Versa Trak US

X0350-EU011-H3

Versa Trak EU