



P/N: RF30-TG-S310

### 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-EPC bits; 512-bit user memory
Functionality	Read / write (user programmed)
Memory - expected read / write cycles	100,000 cycles at 25° C
Data retention	50 years
Read rate	400 tags per second for 96-EPC bit number
Warranty (limited)	1 year

### Performance Characteristics

Read range on-metal (2W ERP)*	Up to 12 m
Read range off-metal (2W ERP <sup>§</sup> )	Up to 6 m
Polarization	Linear
Performance quality	100% tested

\*Actual read range may vary based upon specific application case and antenna power

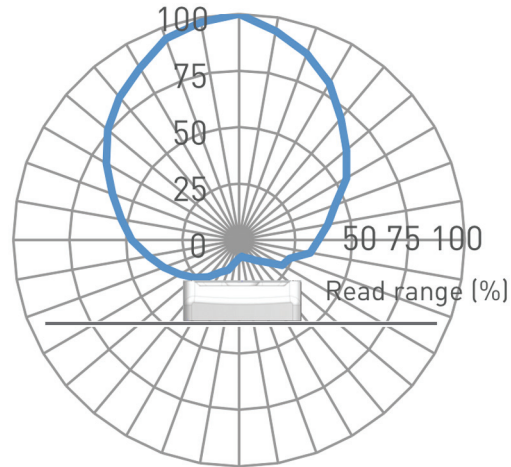
### Physical Specifications

Material	ABS plastic
Mounting system	Rivet hole, ø 5.5 mm, adhesive (optional) Color
Cool gray	

### Environmental and Industry Compliance

RoHS	EU Directive 2002/95/EC
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## Radiation Pattern



## Operational and Environmental Specifications

### Operational temperature

Cold	-40°F (-40°C)
Dry heat	+185°F (+85°C)
Thermal shock	-40°F to 185°F (-40°C to +85°C); cycled

### Application temperature

Cold	-40°F (-40°C)
Dry heat	+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

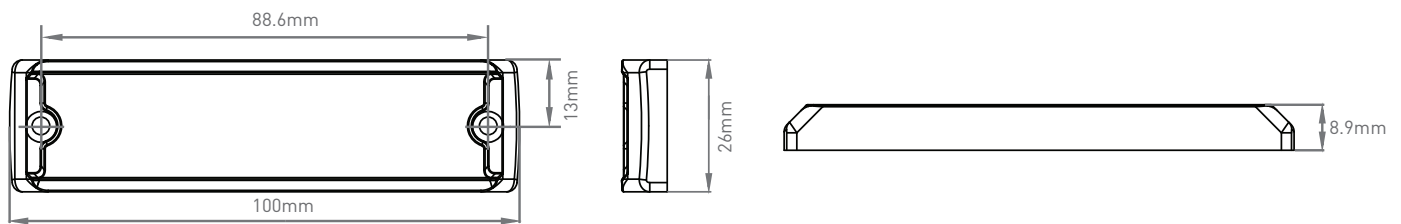
### Compression strength

29 psi (200 kPa)

### IP classification

IP68

## Product Dimensions and Weight



### Dimensions

100mm x 26mm x 8.9 mm

### Rivet hole diameter

5.5 mm

### Weight

17.2 g