

## LYNX SENSOR – Sigfox Mag Sensor (APAC/ANZ)

P/N: LYNX-sensorMAG-SF-40X

### Features:

- Dual beam magnetic sensor - ability to detect metal objects 60cm away, speed and direction of movement.
- Long distance communications utilising LP-WAN to Sigfox networks, via the Sigfox base stations.
- Small footprint pod sensor.
- Low power consumption - long battery life (Lithium batteries up to 8+ years).
- Detection of vehicles at all speeds.
- Ease of installation - no cabling.
- Ease of Support - regular maintenance is not required.
- Low capex and opex - no need of gateways, no annual maintenance, very low communications costs.

### Typical Applications:

- Smart Cities applications.
- Public spaces parking management.
- Indoor & outdoor parking management.
- Camping and Caravan site management.
- Vehicle access gate controls.
- Traffic flow direction.
- Traffic flow speeds.
- Intelligent Traffic Systems.
- Roads Authorities applications.

**DRAFT**

*By Sean van der Walt at 4:46:34 PM, 21/07/2017*

### Product Diagram:

LYNX-sensorMAG-SF-101 =  
LYNX Magnetic Sensor POD Sigfox RCZ4, incl batteries.



LYNX-sensorMAG-SF-102 =  
LYNX Magnetic Sensor PAD Sigfox RCZ4, incl batteries.



## Applications:



# DRAFT

By Sean van der Walt at 4:46:42 PM, 21/07/2017

## Specifications:<sup>1</sup>

### Performance

Battery Life:	8+ years
Accuracy:	99%
Comms Range:	Up to 20 Km depending on environment
Detection Range:	60cm

### Device Interfaces

Comms Module:	LYNX BEE Sigfox RCZ4
Data Interface:	Data over Sigfox network
Antenna:	Integrated into pod. XX dBi gain

### Device Control

Commands:	Remote via Sigfox network
Data:	Tx and Rx data via Sigfox network callbacks

### WAN Functions

LPWAN:	Sigfox RCZ4 supported (APAC & ANZ) Options for RCZ1, RCZ2, RCZ3
Data Flow:	Sigfox Cloud Callback - configurable

### Management

Configuration:	Sigfox Cloud Registration of device
Monitoring:	Sigfox Cloud Monitoring of comms link
Events:	Sigfox Cloud Callback

### Device Air Interface

Frequency Bands:	Tx on 920.8 MHz Rx on 922.3 MHz Max Tx Power 22.5 dBm Rx Sensitivity -129 dBm (at 600 bps, GFSK)
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### Power Specifications

Battery:	Long Life Lithium batteries 8+ years lifetime Serviceable via top hatch
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### Dimensions

POD (Dia x H):	83 x 94 mm
POD Weight:	500g
PAD (W x D x H):	332.6 x 107 x 40 mm
PAD Weight:	500g

### Environmental

Operation Temp.:	-30°C to +85°C
Storage Temp.:	-40°C to +120°C
Humidity:	10% ~ 95% (non-condensing)
Ingress Protection:	IP68

### Partnumbers

LYNX-sensorMAG-SF-401 =	LYNX Magnetic Sensor POD Sigfox RCZ4, incl batteries.
LYNX-sensorMAG-SF-402 =	LYNX Magnetic Sensor PAD Sigfox RCZ4, incl batteries.

\*Options for RCZ1, RCZ2, RCZ3 - please contact us.

### Notes:

1. Specifications are subject to change without notice.
2. Supported frequency bands are dependent on regional hardware variants.
3. Sigfox performance will be degraded if operating in higher ambient temp's. Operating Temps are determined by SIGFOX modules selected for region.