

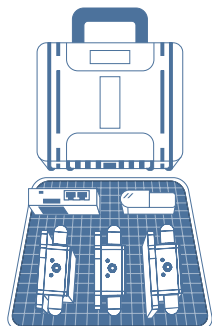


BEANDEVICE® WILOW® AX-3D



BEANDEVICE® WILOW® AX-3DS

Main features	Reference	BND-WILOW-AX-3D-2G	BND-WILOW-AX-3D-10G	BND-WILOW-AX-3DS-16G
Measurement range		±2g	±10g	±2/4/8/16g
Sensor technology		Tri-axial MEMS accelerometer		
Applications		Vibration, Peak Particle Velocity (PPV) and Amplitude	Vibration	Mechanical shock monitoring
Spectral noise density @ BW 10Hz		45µg/√Hz	100µg/√Hz	150 µg/ √Hz
Maximum wireless Range (L.O.S.)		200 m, can be extended by adding WIFI Repeater/Bridge		
Maximum sampling rate per axis (SPS—sample per second)		2000 SPS		1600 SPS
Data Logger Size		772900 data logs per sensor channel (streaming mode)		
Internal Battery/ External Power Supply		- Internal Rechargeable Lithium-Ion 780 mAh - External Power supply : - USB power supply (5VDC) - Option for auxiliary power supply : 8-24VDC compatible with solar energy harvesting (add the extension –EHR)		
Mounting techniques		screw mounting by default, options: 90 degree bracket (add the extension –BR) or magnetic mounting (add the extension -M)		
Casing		Waterproof IP67/NEMA 6 aluminum enclosure		



Suitcase

IP67 Suitcase for Willow Sensors:

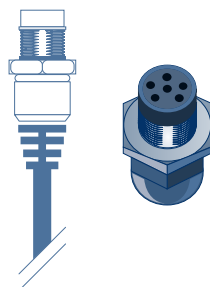
- high quality special plastic
- shock proof, break resistant and scratch proof
- watertight seal around the lid
- long life clip closure
- long life fully length hinges
- cubed foam in the bottom and convoluted foams in the lid

Can contain up to 4 x Willow WIFI Sensors and related accessories (except WIFI Bridge and Antenna)

Dimensions (LxWxH) : 258 x 243 x 167.5 mm

Weight : 1.1kg

Ref: WILOW-IP67-SUITCASE-01

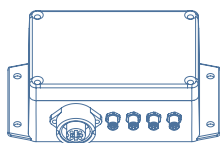


M8 Cable

M8-6Pins Cable, Waterproof (IP67) and shielded cable.

Cable length :

- 2 meters. Ref: WL-CBL-M8-6P-2M
- 5 meters. Ref: WL-CBL-M8-6P-5M



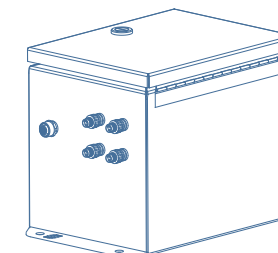
AC/DC Power Adapter for Wilow Sensors

- Waterproof aluminum casing (IP67)
- Input voltage : 85-264 VAC
- Output voltage : 5VDC
- Can power supply up to 4 BeanDevice® Willow®

X-Solar | Solar Power Systems for Wifi IOT Sensors

High efficiency Solar Panel with Solar Charging Controller and Lead-acid battery

X-SOL-WILOW-12AH-20W-4CH-5V-CL



Mechanical Mounting Options

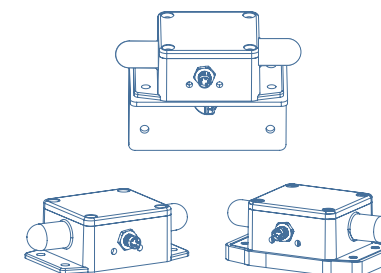
By default, the BeanDevice® Willow® comes with a screw mounting lid. Two other mounting options are available:

- **Magnetic mounting** , add the extension –M on your product reference

Drawing

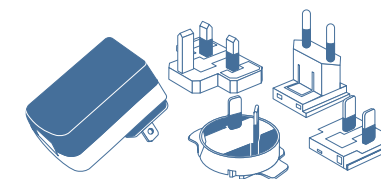
- **90° bracket**, add the extension –BR on your product reference

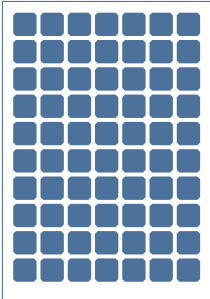
Drawing



Power-supply

Wall plug-in, Switchmode power Supply 12V @ 1,25A with USB plug Provided with power **adapter** : North America / Japan / China or Europe or UK or Australia





Solar Panel 3W

Polycrystalline Solar Panel for BeanDevice® Willow® power supply

Maximum Power : 3W

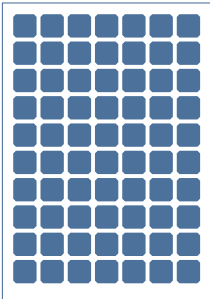
Optimum operating Voltage : 12 VDC

Dimension : 235 mm x 135 mm x 17mm

Protection Frame : Aluminum Frame , Waterproof IP67

Length : 2 meters (Ref: WL-SLP-3W-2M) or 5 meters (Ref: WL-SLP-3W-5M)
with M8 plug for a direct to connection to the BeanDevice® Willow®

Compatible with LowDutyCycle and Survey data acquisition with the battery saver mode enabled



Solar Panel 5W

Polycrystalline Solar Panel for BeanDevice® Willow® power supply

Maximum Power : 5W

Optimum operating Voltage : 12 VDC

Max Voltage = 17.8V

Max Current : 0.28A

Efficiency : 16%

Operating Temperature : -40°C to +85°C

Temperature Coeff. : -0.45%/°C

Dimensions : 250 x 185 x 25 mm

Weight : 0.7kg

Protection Frame : Aluminum Frame , Waterproof IP67

Cable Length : 2 meters (REF: WL-SLP-5W-2M) or 5 meters

(REF: WL-SLP-5W-2M) with M8-6 Pins plug for a direct to connection to the BeanDevice® Willow®

Can work with the following Data Acquisition **mode** : Low Duty Cycle, Alarm, Streaming with Burst Data Acquisition Mode with battery saver mode enable

[Datasheet](#)

[Drawing](#)

WIFI AP / Repeater / Bridge (wifi link extension)

Wireless AP/Repeater with an integrated N-Type RF connector + High Gain Antenna
Wifi Access Point/Bridge/Repeater

Integrated N-Type RF connector + High Gain Antenna with 9 dBi of Gain.

Casing : Outdoor UV Stabilized Plastic, Dimensions (w/o antenna): 190 x 46 mm

Weight : 196 g

Antenna Connector : N-Type Connector (male), Power over Ethernet power supply (24VDC)

Max. Power Consumption : 6 Watts

Operating Temperature : -40 to 80° C

Shock and Vibration : ETSI300-019-1.4

Included :

1x AC to 24VDC POE Power supply

1x High Gain Antenna 9dBi

1 x Power adapter (EU or UK or US)

Ref : WL-AP-UBIQ-TIT-7DBI for 7dBi Antenna

Re f: WL-AP-UBIQ-TIT-9DBI for 9dBi Antenna



Calibration Certificate

Calibration certificate provided by
Beanair GmbH

A static calibration method is used
on a granite surface plate DIN876

Ref : CERT-CAL-SMART