



# Wireless Accelerometer Selection Guide

| Main features   | BeanDevice® AX-3D   |                  |  |                   | BeanDevice® AX-3DS   |                    |   |                      | BeanDevice® AX-3D Xrange   |                         |   |                         |   |                        |   |                        |
|---|---|------------------|--|-------------------|--|--------------------|---|----------------------|--|-------------------------|---|-------------------------|---|------------------------|---|------------------------|
| Reference   | BND-AX-3D-2G-RB   | BND-AX-3D-10G-RB | BND-AX-3DS-8G-RB   | BND-AX-3DS-24G-RB | BND-AX-3DS-8G-RB-SCM   | BND-AX-3DS-24G-SCM | BND-AX-3DS-8G-RB-MM   | BND-AX-3DS-24G-RB-MM | BND-AX-3D-2G-XR-RB-SCM   | BND-AX-3D-10G-XR-RB-SCM | BND-AX-3D-2G-XR-XT-SCM  | BND-AX-3D-10G-XR-XT-SCM | BND-AX-3D-2G-XR-RB-MM   | BND-AX-3D-10G-XR-RB-MM | BND-AX-3D-2G-XR-XT-MM   | BND-AX-3D-10G-XR-XT-MM |
| Measurement Range   | ±2g   | ±10g             | ±2/4/8g  | ±6/12/24g         | ±2/4/8g  | ±6/12/24g          | ±2/4/8g   | ±6/12/24g            | ±2g  | ±10g                    | ±2g   | ±10g                    | ±2g   | ±10g                   | ±2g   | ±10g                   |
| Sensor Technology   | Tri-axial MEMS accelerometer  |                  |  |                   |  |                    |   |                      |  |                         |   |                         |   |                        |   |                        |
| Mounting option   | Adhesive Mounting   |                  | Adhesive Mounting  |                   | Screw Mounting   |                    | Magnet Mounting   |                      | Screw Mounting   |                         |   |                         | Magnet Mounting   |                        |   |                        |
| Applications  | Vibration Monitoring  |                  | Shock and vibration monitoring   |                   |  |                    |   |                      | High-accuracy Vibration Monitoring   |                         |   |                         |   |                        |   |                        |
| Spectral noise density @ BW 10Hz  | 45µg/VHz  | 100µg/VHz        | 218 µg/VHz   | 650 µg/VHz        | 218 µg/VHz   | 650 µg/VHz         | 218 µg/VHz  | 650 µg/VHz           | 45µg/VHz   | 100µg/VHz               | 45µg/VHz  | 100µg/VHz               | 45µg/VHz  | 100µg/VHz              | 45µg/VHz  | 100µg/VHz              |
| Maximum wireless Range (L.O.S. and N.L.O.S.)                              | 650 m in L.O.S<br>30-100 meters in N.L.O.S  |                  |  |                   |  |                    |   |                      |  |                         |   |                         |   |                        |   |                        |
| Maximum sampling rate per channel (SPS—sample per second)                 | 1660 SPS  |                  | 1000 SPS   |                   |  |                    |   |                      | 1660 SPS   |                         |   |                         |   |                        |   |                        |
| Maximum sampling rate per channel (log only mode) (SPS—sample per second) | 4 kSPS maximum per axis (one or two axis enabled)<br>3,5 kSPS per axis (3-axis enabled) |                  |  |                   |  |                    |   |                      |  |                         |   |                         |   |                        |   |                        |
| Data Logger Size  | 1 million logs  |                  | 1 million logs   |                   |  |                    |   |                      | 8 million logs   |                         |   |                         |   |                        |   |                        |
| Internal Battery  | Internal Rechargeable Lithium-Polymer battery 1250mAh                                   |                  | Internal Rechargeable Lithium-Polymer battery 1250mAh                        |                   |  |                    |   |                      | Internal Rechargeable Lithium-Polymer battery 2100mAh                              |                         | No internal battery   |                         | Internal Rechargeable Lithium-Polymer battery 2100mAh                           |                        | No internal battery   |                        |
| Power supply options  | External wall plug-in power supply (12V) with M8 Connector (Ref: PWR-M8-12V)            |                  | External wall plug-in power supply (12V) with M8 Connector (Ref: PWR-M8-12V) |                   |  |                    |   |                      | External wall plug-in power supply (12V) with M8 Connector (Ref: PWR-M8-12V)       |                         | * External wall plug-in power supply (12V) with M8 Connector (Ref: PWR-M8-12V)<br>* External primary cell 6500 mAh (Ref: PRIM-XTEND)<br>* Solar panel kit (Ref: X-SOL-5W-M8-2M) |                         | External wall plug-in power supply (12V) with M8 Connector (Ref: PWR-M8-12V)    |                        | * External wall plug-in power supply (12V) with M8 Connector (Ref: PWR-M8-12V)<br>* External primary cell 6500 mAh (Ref: PRIM-XTEND)<br>* Solar panel kit (Ref: X-SOL-5W-M8-2M) |                        |
| Casing  | Waterproof IP67 aluminum enclosure  |                  | Waterproof IP67 aluminum enclosure   |                   | Waterproof IP67 aluminum enclosure with a rugged base plate (three-point-mounting) |                    | Waterproof IP67 aluminum enclosure with a rugged base plate (magnetic mounting) |                      | Waterproof IP67 aluminum enclosure with a rugged base plate (three-point-mounting) |                         |   |                         | Waterproof IP67 aluminum enclosure with a rugged base plate (magnetic mounting) |                        |   |                        |