## Honeywell



# Limitless ${ }^{\text {TM }}$ Wireless Heavy-Duty Limit Switches WLS Series 



Datasheet

## Limitless ${ }^{\text {TM }}$ WLS Series Wireless Limit Switches

The Limitless ${ }^{\text {TM }}$ product line combines the best of MICRO SWITCH ${ }^{\text {TM }}$ heavy-duty limit switches with the latest commercial off-theshelf wireless technology. Wireless enabled limit switches can be used for position sensing and presence/absence detection for an endless number of applications.

The Limitless ${ }^{\text {TM }}$ Series is especially beneficial for remote monitoring applications where wiring or wire maintenance is not physically possible or economically feasible. Combining this greater flexibility with proven harsh duty packaging can result in increased efficiencies and improved safety for machines, equipment, OEMs, and operators.

## What makes our wireless solutions better?

- Enables control and/or notification from remote parts of applications/machinery/manufacturing plants, where wiring is too costly or not possible
- Ability to reconfigure and network multiple switches and interfaces with unique addresses that allows for adding, subtracting, or relocating Limitless ${ }^{\text {TM }}$ inputs easily
- Limit, eyelet pull, and non-contact switches along with single switch adapters allow for multiple wireless solutions to accommodate almost any application
- Reduced installation and maintenance costs eliminate the need to wire switches, install conduit, apply strain relief, mounting clips, connectors, junction boxes, etc.
- Eliminates issues with wire connection integrity and cable degradation on moving equipment



## WIRELESS DESIGN

Radio (license-free and global): WPAN 802.15.4, 2.4 GHz, point-to-point to deliver reliable, flexible, and secure wireless transmission. Offers control from remote locations where wiring is too costly or not practical (up to 305 m [1000 ft]).

## SEALED FOR HARSH ENVIRONMENTS

The Limitless ${ }^{\text {TM }}$ Series features industrial and NEMA ratings, sealed zinc die-cast and powder coated housings with direct or remote mounted antenna options.

## Range of 305 m [1000 ft]

## REMOTE CONTROL AND MONITORING

When paired with the Limitless ${ }^{\text {TM }}$ Monitor or Receiver, the WLS product line can enable users to monitor and/or control equipment, access points, and presence/ absence detection in remote locations where wiring is too costly or impractical to install. The WLS Series is designed to consume ultra-low power that helps to prolong battery life and has direct or remote mounted antenna options.

## Consumes ultra-Iow power to prolong battery life

## DESIGN OPTIONS

The WLS Series offers a broad range of actuator styles. Side rotary, top plunger, eyelet pull, wobble stick, single switch adapter, and non-contact switch are all available within the product line. Actuator heads on most models can be rotated in $90^{\circ}$ increments to allow for flexibility in applications. Multiple actuators can also be applied to any side rotary WLS Limitless ${ }^{\text {TM }}$ switch.

## CONFIGURABILITY

All of the WLS Series Limitless ${ }^{\text {TM }}$ switches can be easily paired with a WPMM monitor or WDRR receiver providing multiple inputs that easily allow for adding, removing, or relocating Limitless ${ }^{\mathrm{TM}}$ switches. This unique feature helps to eliminate issues with wire connection integrity on moving equipment.

## REDUCES COSTS

With no wires, conduit, strain relief, connectors, or junction boxes to install or maintain, the WLS Series can reduce maintenance costs and inventory associated with maintaining and repairing equipment and facilities.

## Limitless ${ }^{\text {TM }}$ WLS Series • Heavy-Duty Limit Switch

## Potential Applications

with elements of control, notification, and/or setup


- Valve position
- Crane boom/jib/skew position
- Safety shower monitoring
- Lifts
- Material handling
- Presses
- CNC equipment
- Construction/Agricultural equipment
- Movable machinery
- Door position
- Hose attachment verification
- Remote or temporary equipment


Table 1. WLS Series Specifications

| Characteristic | Parameter |
| :---: | :---: |
| Series name | WLS Series |
| Product type | Limitless ${ }^{\text {TM }}$ Wireless Heavy-Duty Limit Switches |
| Availability | global, license-free bands |
| Operating force | see specification tables on page 6-7 |
| Actuator | side rotary, top plunger, top roller plunger, top adjustable plunger, side plunger, wobble stick |
| Lever type | rotary lever included with side rotary - other lever options available |
| Housing material | zinc die-cast head and body, phosphate treated and powder coated |
| Housing type | EN 50041 |
| Radio | WPAN 802.15.4; 2.4 GHz |
| Antenna type | direct or remote mount antenna options; omni directional |
| Signal range* | 305 meters [1000 ft] clear "line of sight"** between switch and receiver using a 2.2 dBi integral antenna |
| Battery | 3.5 Vdc Lithium Thionyl Chloride; $2 / 3 \mathrm{AA}$ size (est. life $=1$ year ) <br> Manufactured by Uniwell, part number DEV-10-0009; Green Energy p/n ER14335M; Honeywell p/n WBT1 |
| Sealing | IP67; NEMA 1, 3, 4, 6, 6P, 12, 13 |
| EMC | Latest applicable standards: EN 300 328, V1.7.1; EN 61326-1 (2006); EN 301 489-1, V1.8.1; EN 301 489-17, V2.1.1 |
| Shock | IEC 60068-2-27; half sine, $10 \mathrm{~g}, 6 \mathrm{mS}, 3$ axis |
| Vibration | IEC 60068-2-6; 10-500Hz w/ 0,35 mm peak to peak, $58-500 \mathrm{~Hz}-5 \mathrm{~g}$ |
| Operating temperature | $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}\left[-40^{\circ} \mathrm{F}\right.$ to $\left.185^{\circ} \mathrm{F}\right]$ |
| Agency approvals and standards | FCC 15.247: United States of America • IC RSS 210: Canada <br> ETSI, CE mark: European countries • ACMA, C-TICK: Australia, New Zealand <br> IDA: Singapore • COFETEL: Mexico <br> WPC: India • ANATEL: Brazil <br> SRRC: China • KCC: South Korea |
| UNSPSC code | 20142601 |
| UNSPSC commodity | 20142601 |
| Sealed | Industrial |

*Actual range may vary depending upon antennas, cables, and topography.
** "Line of sight" is not mandatory to fully utilize the Limitless ${ }^{\text {TM }}$ technology and thus testing in the actual application will determine suitability.

## Limitless ${ }^{\text {TM }}$ Wireless Heavy-Duty Limit Switches

## PRODUCT NOMENCLATURE



Table 2. WLS Series Actuator Code Table

| Code | Catalog Listing | Material | Roller Dia. (in) | Roller Width (in) | Roller Mounting |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Fixed 1.5 inch radius |  |  |  |  |  |
| 1 | LSZ51 | Rollerless | n/a | n/a | n/a |
| 1A | LSZ51A | Nylon | 0.75 | 0.25 | Front |
| 1B | LSZ51B | Steel | 0.75 | 0.25 | Front |
| 1 C | LSZ51C | Nylon | 0.75 | 0.25 | Back |
| 1D | LSZ51D | Steel | 0.75 | 0.25 | Back |
| 1F | LSZ51F | Nylon | 1.0 | 0.520 | Front |
| 1G | LSZ51G | Nylon | 1.5 | 0.25 | Front |
| 1 J | LSZ51J | Nylon | 1.0 | 0.520 | Back |
| 1L | LSZ51L | Ball bearing | 0.75 | 0.25 | Back |
| 1M | LSZ51M | Nylon | 0.75 | 1.25 | Back |
| 1N | LSZ51N | Steel | 0.75 | 1.25 | Front |
| 1 P | LSZ51P | Nylon | 0.75 | 0.50 | Front |
| Adjustable 1.5 in to 3.5 in radius |  |  |  |  |  |
| 2 | LSZ52 | Rollerless | n/a | n/a | n/a |
| 2A | LSZ52A | Nylon | 0.75 | 0.25 | Back |
| 2B | LSZ52B | Steel | 0.75 | 0.25 | Back |
| 2C | LSZ52C | Nylon | 0.75 | 0.25 | Front |
| 2D | LSZ52D | Steel | 0.75 | 0.25 | Front |
| 2E | LSZ52E | Nylon | 0.75 | 1.30 | Front |
| 2 J | LSZ52J | Nylon | 1.0 | 0.50 | Front |
| 2K | LSZ52K | Nylon | 1.5 | 0.25 | Front |
| 2L | LSZ52L | Ball bearing | 0.75 | 0.25 | Front |
| 2M | LSZ52M | Nylon | 2.0 | 0.25 | Front |
| 2N | LSZ52N | Nylon | 0.75 | 0.50 | Front |
| Yoke - 1.5 in radius |  |  |  |  |  |
| 3A | LSZ53A | Nylon | 0.75 | 0.25 | Front/Back |
| 3B | LSZ53B | Steel | 0.75 | 0.25 | Front/Back |
| 3D | LSZ53D | Steel | 0.75 | 0.25 | Front/Front |


| Code | Catalog Listing | Material | Roller Dia. (in) | Roller Width (in) | Roller Mounting |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Yoke - 1.5 in radius, continued |  |  |  |  |  |
| 3E | LSZ53E | Nylon | 0.75 | 0.25 | Back/Front |
| 3M | LSZ53M | Nylon | 0.75 | 1.25 | Back/Front |
| 3P | LSZ53P | Steel | 0.75 | 0.25 | Back/Back |
| 3 S | LSZ53S | Nylon | 0.75 | 0.25 | Back/Back |
| Rod |  |  |  |  |  |
| 4 | LSZ54 | Hub only | n/a | n/a | n/a |
| 4M | LSZ54M | Alum, 5.5 in | n/a | n/a | n/a |
| 4N | LSZ54N | Stainless, 13 in | n/a | n/a | n/a |
| 4R | LSZ54R | $\begin{aligned} & \text { Spring Wire, } \\ & 12 \text { in } \end{aligned}$ | n/a | n/a | n/a |
| 4V | LSZ54V | Flex cable, 4.8 in | n/a | n/a | n/a |
| Offset - $\mathbf{1 . 5}$ in radius |  |  |  |  |  |
| 5 | LSZ55 | Rollerless | n/a | n/a | n/a |
| 5A | LSZ55A | Nylon | 0.75 | 0.25 | Back |
| 5B | LSZ55B | Steel | 0.75 | 0.25 | Back |
| 5 C | LSZ55C | Nylon | 0.75 | 0.25 | Front |
| 5D | LSZ55D | Steel | 0.75 | 0.25 | Front |
| 5E | LSZ55E | Nylon | 0.75 | 0.50 | Front |
| 5K | LSZ55K | Nylon | 1.5 | 0.25 | Front |
| Wobble stick |  |  |  |  |  |
| 7A | LSZ1JGA | Delrin ${ }^{\text {TM }}$ rod, 5.5 | n/a | n/a | n/a |
| 7M | LSZ1JGM | Spring wire, 13.0 | n/a | n/a | n/a |
| 7N | LSZ1JGN | Cable, 5.5 in. | n/a | n/a | n/a |
| Short fixed - 1.3 in radius |  |  |  |  |  |
| 9A | LSZ59A | Nylon | 0.75 | 0.25 | Front |
| 9B | LSZ59B | Steel | 0.75 | 0.25 | Front |
| 9 C | LSZ59C | Nylon | 0.75 | 0.25 | Back |
| 9 D | LSZ59D | Steel | 0.75 | 0.25 | Back |

## WLS Series

Table 3. WLS Series Order Guide

| Photo | Part Number* | Operating Head | Actuator/Lever | Antenna Type |
| :---: | :---: | :---: | :---: | :---: |
| $y$ | WLS1A01AA1A | side rotary - momentary | Fixed $33,1 \mathrm{~mm}$ [1.5 in] lever with nylon roller | 2.2 dBi omni, straight |
|  | WLS1A02AA1A | side rotary - momentary | Fixed $33,1 \mathrm{~mm}$ [1.5 in] lever with nylon roller | 2.2 dBi omni, tilt \& swivel |
|  | WLS1A04AA1A | side rotary - momentary | Fixed $33,1 \mathrm{~mm}$ [1.5 in] lever with nylon roller | 5.5 dBi omni w/ remote magnetic mount, tilt \& swivel, 5 ft cable |
|  | WLSTA11AA1A | side rotary - momentary | Fixed $33,1 \mathrm{~mm}$ [1.5 in] lever with nylon roller | 0.0 dBi omni, straight |
| $b$ | WLSTA01AA1B | side rotary - momentary | Fixed $33,1 \mathrm{~mm}[1.5 \mathrm{in}]$ lever with steel roller | 2.2 dBi omni, straight |
|  | WLSTA02AA1B | side rotary - momentary | Fixed $33,1 \mathrm{~mm}$ [ 1.5 in l lever with steel roller | 2.2 dBi omni, til \& swivel |
|  | WLS1A04AA1B | side rotary - momentary | Fixed $33,1 \mathrm{~mm}$ [ 1.5 in ] lever with steel roller | 5.5 dBi omni w/ remote magnetic mount, tilt \& swivel, 5 ft cable |
|  | WLSTA11AA1B | side rotary - momentary | Fixed $33,1 \mathrm{~mm}[1.5 \mathrm{in}]$ lever with steel roller | 0.0 dBi omni, straight |
|  | WLS1A001AA2A | side rotary - momentary | Adjustable $88,9 \mathrm{~mm}$ [ 3.5 in$]$ lever with nylon roller | 2.2 dBi omni, straight |
|  | WLS1A02AA2A | side rotary - momentary | Adjustable $88,9 \mathrm{~mm}$ [ 3.5 in ] lever with nylon roller | 2.2 dBi omni, tilt \& swivel |
|  | WLS1A04AA2A | side rotary - momentary | Adjustable $88,9 \mathrm{~mm}$ [3.5 in] lever with nylon roller | 5.5 dBi omni $\mathrm{w} /$ remote magnetic mount, tilt \& swivel, 5 ft cable |
|  | WLSTA11AA2A | side rotary - momentary | Adjustable $88,9 \mathrm{~mm}$ [3.5 in] lever with nylon roller | 0.0 dBi omni, straight |
|  | WLS1A01AA2B | side rotary - momentary | Adjustable $88,9 \mathrm{~mm}$ [ 3.5 in$]$ lever with steel roller | 2.2 dBi omni, straight |
|  | WLS1A02AA2B | side rotary - momentary | Adjustable $88,9 \mathrm{~mm}$ [ 3.5 in$]$ lever with steel roller | 2.2 dBi omni, tilt \& swivel |
|  | WLS1A04AA2B | side rotary - momentary | Adjustable $88,9 \mathrm{~mm}$ [ 3.5 in ] lever with steel roller | 5.5 dBi omni w/remote magnetic mount, tilt \& swivel, 5 ft cable |
|  | WLS1A11AA2B | side rotary - momentary | Adjustable $88,9 \mathrm{~mm}$ [ 3.5 in$]$ lever with steel roller | 0.0 dBi omni, straight |
| $5$ | WLS1A01AA4M | side rotary - momentary | 140 mm [ 5.5 in ] aluminum adjustable rod | 2.2 dBi omni, straight |
|  | WLS1A02AA4M | side rotary - momentary | 140 mm [ 5.5 in ] aluminum adjustable rod | 2.2 dBi omni, tilt \& swivel |
|  | WLSTA01AA4N | side rotary - momentary | 330 mm [13.0 in] stainless steel rod | 2.2 dBi omni, straight |
|  | WLSTAO2AA4N | side rotary - momentary | 330 mm [13.0 in] stainless steel rod | 2.2 dBi omni, tilt \& swivel |
|  | WLSTA11AA4N | side rotary - momentary | 330 mm [13.0 in] stainless steel rod | 0.0 dBi omni, straight |
|  | WLS1A02AB | side pin plunger | - | 2.2 dBi omni, tilt \& swivel |
|  | WLS1A01AC | top pin plunger | - | 2.2 dBi omni, straight |
|  | WLS1A02AC | top pin plunger | - | 2.2 dBi omni, tilt \& swivel |
|  | WLS1A04AC | top pin plunger | - | 5.5 dBi omni w/ remote magnetic mount, tilt \& swivel, 5 ft cable |
|  | WLS1A11AC | top pin plunger | - | 0.0 dBi omni, straight |
|  | WLS1A01AD | top roller plunger | - | 2.2 dBi omni, straight |
|  | WLS1A02AD | top roller plunger | - | 2.2 dBi omni, tilt \& swivel |
|  | WLS1A04AD | top roller plunger | - | 5.5 dBi omni w/ remote magnetic mount, tilt \& swivel, 5 ft cable |
|  | WLS1A11AD | top roller plunger | - | 0.0 dBi omni, straight |
|  | WLS1A02AJ7M | wobble - wire | $\varnothing 2,0 \mathrm{~mm}[\varnothing 0.075 \mathrm{in}] \times 330 \mathrm{~mm}$ [13.0 in] | 2.2 dBi omni, tilt \& swivel |
|  | WLS1A11AJJA | wobble - thermoplastic rod | Ø6,35 mm $\times 140 \mathrm{~mm}$ [Ø0.25 in $\times 5.5 \mathrm{in}]$ | 0.0 dBi omni, straight |

* To order products approved for use outside of the US/Canada/Mexico ( $\mathbf{A}$ code), simply substitute the appropriate letter after reviewing the product approvals and antenna guidelines contained in this document. $\underline{\mathbf{B}}=$ All other approved countries
NOTE: Switches are also aviailable without antennas. Contact Honeywell Customer Service or an authorized distributor for details.


## Limitless ${ }^{\text {TM }}$ Wireless Heavy-Duty Limit Switches

| Pretravel (PT) max. | Overtravel (OT) min. | Differential Travel (DT) max. | Operating Point (OP) | Free Position (FP) | Oper. Force or Torque (max.) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | $0,45 \mathrm{Nm}$ [ $4 \mathrm{in}-\mathrm{lb}$ ] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5{ }^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | $0,45 \mathrm{Nm}$ [4 in-lb] |
| $17.5{ }^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | $0,45 \mathrm{Nm}[4 \mathrm{in}-\mathrm{lb}]$ |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5{ }^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | $0,45 \mathrm{Nm}$ [4 in-lb] |
| $17.5{ }^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | $0,45 \mathrm{Nm}$ [4 in-lb] |
| $17.5^{\circ}$ | $60^{\circ}$ | $7^{\circ}$ | - | - | 0,45 Nm [4 in-lb] |
| $2,54 \mathrm{~mm}$ [0.10 in] | $4,83 \mathrm{~mm}$ [0.19 in] | $1,14 \mathrm{~mm}$ [0.045 in] | $\begin{gathered} 33,02 \mathrm{~mm} \pm 0,76 \mathrm{~mm} \\ {[1.30 \mathrm{in} \pm 0.03 \mathrm{in}]} \end{gathered}$ | - | 26,69 N [6 lb] |
| 1,78 mm [0.070 in] | 4,83 mm [0.190 in] | 0,41 mm [0.016 in] | $\begin{gathered} 45,85 \mathrm{~mm} \pm 0,76 \mathrm{~mm} \\ {[1.805 \mathrm{in} \pm 0.03 \mathrm{in}]} \end{gathered}$ | 47,63 mm ref. <br> [1.875 in ref.] | 17,79 N [4 lb] |
| 1,78 mm [0.070 in] | 4,83 mm [0.190 in] | 0,41 mm [0.016 in] | $\begin{gathered} 45,85 \mathrm{~mm} \pm 0,76 \mathrm{~mm} \\ {[1.805 \mathrm{in} \pm 0.03 \mathrm{in}]} \end{gathered}$ | $47,63 \mathrm{~mm}$ ref. <br> [1.875 in ref.] | 17,79 N [4 lb] |
| 1,78 mm [0.070 in] | 4,83 mm [0.190 in] | 0,41 mm [0.016 in] | $\begin{gathered} 45,85 \mathrm{~mm} \pm 0,76 \mathrm{~mm} \\ {[1.805 \mathrm{in} \pm 0.03 \mathrm{in}]} \end{gathered}$ | 47,63 mm ref. <br> [1.875 in ref.] | 17,79 N [4 lb] |
| $1,78 \mathrm{~mm}[0.070 \mathrm{in}]$ | 4,83 mm [0.190 in] | 0,41 mm [0.016 in] | $\begin{gathered} 45,85 \mathrm{~mm} \pm 0,76 \mathrm{~mm} \\ {[1.805 \mathrm{in} \pm 0.03 \mathrm{in}]} \end{gathered}$ | $47,63 \mathrm{~mm}$ ref. <br> [1.875 in ref.] | 17,79 N [4 lb] |
| $1,78 \mathrm{~mm}[0.070 \mathrm{in}]$ | 4,83 mm [0.190 in] | 0,41 mm [0.016 in] | $\begin{gathered} 55,88 \mathrm{~mm} \pm 1,02 \mathrm{~mm} \\ {[2.20 \mathrm{in} \pm 0.04 \mathrm{in}]} \end{gathered}$ | 57,66 mm ref. <br> [2.270 in ref.] | 17,79 N [4 lb] |
| 1,78 mm [0.070 in] | 4,83 mm [0.190 in] | 0,41 mm [0.016 in] | $\begin{gathered} 55,88 \mathrm{~mm} \pm 1,02 \mathrm{~mm} \\ {[2.20 \mathrm{in} \pm 0.04 \mathrm{in}]} \end{gathered}$ | 57,66 mm ref. [2.270 in ref.] | 17,79 N [4 lb] |
| $1,78 \mathrm{~mm}[0.070 \mathrm{in}]$ | 4,83 mm [0.190 in] | 0,41 mm [0.016 in] | $\begin{gathered} 55,88 \mathrm{~mm} \pm 1,02 \mathrm{~mm} \\ {[2.20 \mathrm{in} \pm 0.04 \mathrm{in}]} \end{gathered}$ | $57,66 \mathrm{~mm}$ ref. <br> [2.270 in ref.] | 17,79 N [4 lb] |
| $1,78 \mathrm{~mm}[0.070 \mathrm{in}]$ | 4,83 mm [0.190 in] | 0,41 mm [0.016 in] | $\begin{gathered} 55,88 \mathrm{~mm} \pm 1,02 \mathrm{~mm} \\ {[2.20 \mathrm{in} \pm 0.04 \mathrm{in}]} \end{gathered}$ | 57,66 mm ref. [2.270 in ref.] | 17,79 N [4 lb] |
| $101,6 \mathrm{~mm}$ [4.0 in] | - | - | - | - | 142 g [5 oz] |
| 25,4 mm [1.0 in] | - | - | - | - | 284 g [10.0 oz] |

## WLS Series

## DIMENSIONS

Figure 1. Limitless ${ }^{\text {TM }}$ WLS Series Side Rotary


Figure 3. Limitless ${ }^{\text {TM }}$ WLS Series Top Roller Plunger


Figure 2. Limitless ${ }^{\text {™ }}$ WLS Series Top Adjustable Plunger Head


Figure 4. Limitless ${ }^{\text {TM }}$ WLS Series Top Plunger Head


## Limitless ${ }^{\text {TM }}$ Wireless Heavy-Duty Limit Switches

Figure 5. Limitless ${ }^{\text {TM }}$ WLS Series Side Plunger


Figure 6. Limitless ${ }^{\text {TM }}$ WLS Series Wobbles


Operating Head Code J Actuator Code 7A

Operating Head Code J Actuator Code 7N

Operating Head Code J Actuator Code 7M

## WLS Series

Table 4. WLS Series Available Levers

${ }^{* *}$ May require orientation of switch and lever to enable gravity to help restore switch's free position.

## Limitless ${ }^{\text {TM }}$ WLS Series • Eyelet Pull Limit Switch

Honeywell Limitless ${ }^{\text {TM }}$ WLS Series Heavy Duty Wireless Limit Switches with an eyelet pull operating head can be used to attach a rope, cable, or chain. It also can be used on cranes as an anti-two-block (A2B) switch.

## Potential Applications



Table 5. WLS Series with Eyelet Pull Specifications

| Characteristic | Parameter |
| :--- | :---: |
| Operating characteristics | operating force: 7 lb . approx. or 18 lb . approx. |
| Actuator | momentary eyelet pull operating head (pull eyelet in-line with shaft to prevent damage) |
| Housing material | zinc die-cast head and body, phosphate treated and powder coated |
| Radio | WPAN $802.15 .4 ; 2.4 \mathrm{GHz}$ |

FCC 15.247: United States of America
IC RSS 210: Canada
ETSI, CE mark: European countries
ACMA, C-TICK: Australia, New Zealand
COFETEL: Mexico
WPC: India
ANATEL: Brazil
SRRC: China
KCC: South Korea

| Antenna type | RP-SMA jack for direct or remote mount antenna options; omni-directional |
| :---: | :---: |
| Signal range* | In excess of 305 m [1000 ft] "line-of-sight"** communication between Limitless ${ }^{\text {TM }}$ switches and monitor |
| Battery | 3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size (est. life $=1$ year ) <br> Manufactured by Uniwell, p/n DEV-10-0009; Green Energy, p/n ER14335M; Honeywell, p/n WBT1 |
| Sealing | IP67/IP68; NEMA 1, 4, 6, 6P, 12, 13 |
| EMC | Latest applicable standards: EN 300 328, V1.7.1; EN 61326-1 (2006); EN 301 489-1, V1.8.1; EN 301 489-17, V2.1.1 |
| Shock | IEC 60068-2-27; half sine, $10 \mathrm{~g}, 6 \mathrm{mS}, 3$ axis |
| Vibration | IEC 60068-2-6; $10-500 \mathrm{~Hz}$ w/ 0,35 mm peak-to-peak, $58-500 \mathrm{~Hz}-5 \mathrm{~g}$ |
| Operating temperature | $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}\left[-40^{\circ} \mathrm{F}\right.$ to $\left.185{ }^{\circ} \mathrm{F}\right]$ |

[^0]
## WLS Series

Table 6. WLS Series with Eyelet Pull Order Guide


## Limitless ${ }^{\text {TM }}$ Wireless Heavy-Duty Limit Switches

Figure 7. Limitless ${ }^{\text {TM }}$ WLS Series with Eyelet Pull


## Limitless ${ }^{\text {TM }}$ WLS Series • Non-Contact Limit Switch

Honeywell's Limitless ${ }^{\text {™ }}$ Wireless Non-Contact Switch provides non-contact presence/absence detection of a variety of different magnet styles and magnetic actuators installed on the end-users' product, machine, equipment, etc. The Limitless™ WLS Non-Contact Switch's design features an industrial grade reed switch. Customers can choose how the reed switch is oriented within the switch's plastic head, i.e., either top- or side-sensing. Combining this greater flexibility with proven harsh-duty packaging can result in increased efficiencies and improved safety for industrial machines, equipment, OEMs, and operators.

## Potential Applications



- Machine tools
- Packaging machinery
- Lifts
- Ag/construction equipment
- Industrial machines

Table 7. WLS Series Non-Contact Switch Specifications

| Characteristic | Parameter |
| :---: | :---: |
| Operating characteristics | operating point: $3,81 \mathrm{~mm}$ [ 0.15 in$] \mathrm{min}$.; release point: $15,24 \mathrm{~mm}$ [ 0.60 in$]$ max. with use of WMG1 magnet (included with WLS Series Non-Contact Switch) |
| Sensing target | top and side of head |
| Housing material | zinc body is phosphate treated and powder coated; $30 \%$ glass-filled PBT plastic head |
| Radio | WPAN 802.15.4; 2.4 GHz |
| Communication agency approval | FCC 15.247: United States of America <br> IC RSS 210: Canada <br> ETSI, CE mark: European countries <br> ACMA, C-TICK: Australia, New Zealand <br> COFETEL: Mexico <br> WPC: India <br> ANATEL: Brazil <br> SRRC: China <br> KCC: South Korea |
| Antenna type | RP-SMA jack for direct or remote mount antenna options; omni-directional standard |
| Signal range* | In excess of 305 m [1000 ft] "line-of-sight"** communication between Limitless ${ }^{\text {TM }}$ switches and monitor |
| Battery | 3.6 Vdc Lithium Thionyl Chloride; $2 / 3$ AA size (est. life $=1$ year ) <br> Manufactured by Uniwell, p/n DEV-10-0009; Green Energy, p/n ER14335M; Honeywell, p/n WBT1 |
| Sealing | IP67; NEMA 1, 4, 12, 13 |
| EMC | Latest applicable standards: EN 300 328, V1.7.1; EN 61326-1 (2006); EN 301 489-1, V1.8.1; EN 301 489-17, V2.1.1 |
| Shock | IEC 60068-2-27; half sine, $10 \mathrm{~g}, 6 \mathrm{mS}, 3$ axis |
| Vibration | IEC 60068-2-6; 10-500Hz w/ 0,35 mm peak-to-peak, $58-500 \mathrm{~Hz}-5 \mathrm{~g}$ |
| Operating temperature | $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}\left[-40^{\circ} \mathrm{F}\right.$ to $\left.185{ }^{\circ} \mathrm{F}\right]$ |

[^1]
## Limitless ${ }^{\text {TM }}$ Wireless Heavy-Duty Limit Switches

Table 8. WLS Series Non-Contact Switch Standard Listings

| Photo | Part Number | Description |
| :---: | :---: | :---: |
|  | WLS1A00AQRS1 | LimitlessTM WLS Series Non-Contact Switch with no antenna (RP-SMA connector jack) and a top sensing target, for use in US, Canada, and Mexico |
|  | WLS1A00AQRS2 | LimitlessTM WLS Series Non-Contact Switch with no antenna (RP-SMA connector jack) and a side sensing target, for use in US, Canada, and Mexico |
|  | WLS1A11AQRS1 | Limitless ${ }^{\text {TM }}$ WLS Series Non-Contact Switch with a 0 dBi antenna and a top sensing target, for use in US, Canada, and Mexico |
|  | WLS1A11AQRS2 | Limitless ${ }^{\text {TM }}$ WLS Series Non-Contact Switch with a 0 dBi antenna and a side sensing target, for use in US, Canada, and Mexico |
|  | WLS1A00BQRS1 | Limitless ${ }^{\text {TM }}$ WLS Series Non-Contact Switch with no antenna (RP-SMA connector jack) and a top sensing target, for use in all other approved countries |
|  | WLS1A00BQRS2 | Limitless ${ }^{\text {TM }}$ WLS Series Non-Contact Switch with no antenna (RP-SMA connector jack) and a side sensing target, for use in all other approved countries |
|  | WLS1A11BQRS1 | Limitless ${ }^{\text {TM }}$ WLS Series Non-Contact Switch with a 0 dBi antenna and a top sensing target, for use in all other approved countries |
|  | WLS1A11BQRS2 | LimitlessTM WLS Series Non-Contact Switch with a 0 dBi antenna and a side sensing target, for use in all other approved countries |
|  | WMG1 | Limitless ${ }^{\text {TM }}$ magnets for use with WLS Non-Contact Switch only: Operating point $3,81 \mathrm{~mm}$ [ 0.15 in ] min.; Release point $15,24 \mathrm{~mm}$ [ 0.60 in ] max. |
|  | WMG2 | Limitless ${ }^{\text {TM }}$ magnets for use with WLS Non-Contact Switch only: Operating point $11,43 \mathrm{~mm}$ [ 0.45 in ] min.; Release point $54,4 \mathrm{~mm}$ [ 1.0 in$]$ max. |

## WLS Series

Figure 8. Limitless ${ }^{\text {TM }}$ WLS Series Non-Contact Switch


## Limitless ${ }^{\text {TM }}$ WLS Series • Single Switch Adapter

Honeywell's Limitless ${ }^{\text {™ }}$ Single Switch Adapter can convert almost any electromechanical switch with low-energy contacts (i.e., gold) into a wireless switch. A user-supplied electromechanical switch is simply wired to the WLS Series Single Switch Adapter via the internal or external connections to then become a wireless-enabled switch for use with the Limitless ${ }^{\text {TM }}$ WPMM or WDRR Series of monitors/receivers. The Limitless ${ }^{\text {TM }}$ Single Switch Adapter can be used in a variety of industrial wireless limit switch applications such as reed, contact, pressure, door actuator, etc. Honeywell offers numerous styles of low-energy contact switches. From sealed heavy-duty limits to small basics and subminiature switches, Honeywell can provide a low-energy solution that is compatible with the Limitless ${ }^{\text {TM }}$ Single Switch Adapter. Contact your Honeywell representative or distributor for details.

## Potential Applications



- Agricultural equipment
- Construction equipment
- Door actuation (up/down) switch
- Industrial machines
- Lifts
- Machine tools
- Packaging machinery
- Wireless warehouse operations
- Wireless electo-mechanical switch operations (i.e. pressure switch, reed switch, basic switch, and/or limit switch)


Table 9. WLS Series Single Switch Adapter Specifications

| Characteristic | Parameter |
| :---: | :---: |
| Electromechanical switch | SPDT (Form C) switch with low-energy contacts (i.e., gold) capable of reliably controlling a 3.6 Vdc @ 30 mA electrical load to ensure proper operation |
| Electrical connections | 4-pin M12 micro-connector with three-pole, single keyway female receptacle Cable grip with internal screw connector <br> Note: Maximum cable length $3 \mathrm{~m}[9.84 \mathrm{ft}]$. Cable diameter $8 \mathrm{~mm}[0.32 \mathrm{in}]$ max. $/ 2,5 \mathrm{~mm}[0.10 \mathrm{in}] \mathrm{min}$. |
| Housing material | zinc head is phosphate treated and powder coated; $30 \%$ glass-filled PBT plastic head |
| Radio | WPAN 802.15.4; 2.4 GHz |
| Communication agency approval | FCC 15.247: United States of America • IC RSS 210: Canada <br> ETSI, CE mark: European countries • ACMA, C-TICK: Australia, New Zealand <br> COFETEL: Mexico • WPC: India <br> ANATEL: Brazil • SRRC: China <br> KCC: South Korea |
| Antenna type | RP-SMA jack for direct or remote mount antenna options; omni-directional standard |
| Signal range* | In excess of 305 m [1000 ft] "line-of-sight"** communication between Limitless ${ }^{\text {™ }}$ switches and monitor |
| Battery | 3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size (est. life = 1 year ) Manufactured by Uniwell, p/n DEV-10-0009; Green Energy, p/n ER14335M; Honeywell, p/n WBT1 |
| Sealing | IP67; NEMA 1, 4, 12, 13 |
| EMC | Latest applicable standards: EN 300 328, V1.7.1; EN 61326-1 (2006); EN 301 489-1, V1.8.1; EN 301 489-17, V2.1.1 |
| Shock | IEC 60068-2-27; half sine, $10 \mathrm{~g}, 6 \mathrm{mS}, 3$ axis |
| Vibration | IEC 60068-2-6; $10-500 \mathrm{~Hz}$ w/ 0,35 mm peak-to-peak, $58-500 \mathrm{~Hz}-5 \mathrm{~g}$ |
| Operating temperature | $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}\left[-40^{\circ} \mathrm{F}\right.$ to $\left.185{ }^{\circ} \mathrm{F}\right]$ |

[^2]
## WLS Series

Table 10. WLS Series Single Switch Adapter Standard Listings

| Photo | Part Number | Description |
| :---: | :---: | :---: |
|  | WLS1A00AQBT1 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, no antenna, internal battery with M12 microconnector on top of head for use in US, Canada, and Mexico |
|  | WLS1A00BQBT1 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, no antenna, internal battery with M12 microconnector on top of head for use in all other approved countries |
|  | WLS1A02AQBT1 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 2.2 dBi tilt/swivel antenna, internal battery with M12 micro-connector on top of head for use in US, Canada, and Mexico |
|  | WLS1A02BQBT1 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 2.2 dBi tilt/swivel antenna, internal battery with M12 micro-connector on top of head for use in all other approved countries |
|  | WLS1A11AQBT1 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 0 dBi straight antenna, internal battery with M12 micro-connector on top of head for use in US, Canada, and Mexico |
|  | WLS1A11BQBT1 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 0 dBi straight antenna, internal battery with M12 micro-connector on top of head for use in all other approved countries |
|  | WLS1A00AQBT2 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, no antenna, internal battery with M12 side micro-connector on top of head for use in US, Canada, and Mexico |
|  | WLS1A02AQBT2 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 2.2 dBi tilt/swivel antenna, internal battery with M12 side micro-connector on top of head for use in US, Canada, and Mexico |
|  | WLS1A11AQBT2 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 0 dBi straight antenna, internal battery with M12 side micro-connector on top of head for use in US, Canada, and Mexico |
|  | WLS1A00AQBT3 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, no antenna, internal battery with cable grip on top of head for use in US, Canada, and Mexico |
|  | WLS1A00BQBT3 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, no antenna, internal battery with cable grip on top of head for use in all other approved countries |
|  | WLS1A02AQBT3 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 2.2 dBi tilt/swivel antenna, internal battery with cable grip on top of head for use in US, Canada, and Mexico |
|  | WLS1A02BQBT3 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 2.2 dBi tilt/swivel antenna, internal battery with cable grip on top of head for use in all other approved countries |
|  | WLS1A11AQBT3 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 0 dBi straight antenna, internal battery with cable grip on top of head for use in US, Canada, and Mexico |
|  | WLS1A11BQBT3 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 0 dBi straight antenna, internal battery with cable grip on top of head for use in all other approved countries |
|  | WLS1A00AQBT4 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, no antenna, internal battery with cable grip on side of head for use in US, Canada, and Mexico |
|  | WLS1A02AQBT4 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 2.2 dBi tilt/swivel antenna, internal battery with cable grip on side of head for use in all other approved countries |
|  | WLS1A11AQBT4 | Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter, 0 dBi straight antenna, internal battery with cable grip on side of head for use in US, Canada, and Mexico |

## Limitless ${ }^{\text {TM }}$ Wireless Heavy-Duty Limit Switches

Figure 9. Limitless ${ }^{\text {TM }}$ WLS Series Single Switch Adapter


## WLS Series

Table 11. Antenna Listings/Order Code Specifications
Antennas can be ordered with the Limitless ${ }^{\text {TM }}$ Wireless switches by inserting the Antenna Type Code into the part number as shown in the nomenclature. Also, switches can be ordered without antennas, by using the " 00 " Antenna Type Code in the part number. Antennas may also be ordered separately using the Part Numbers below.

|  | Part Number (if ordered separately) | Antenna Type Code (if ordered with a wireless switch) |  | Antenna Design | Antenna <br> Gain (dBi) | Connector/ <br> Mounting | Dimensions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | WAN01RSP | 01 |  | straight | 2.2 | RP-SMA <br> plug/direct mount | $\begin{gathered} \varnothing 9,91 \mathrm{~mm} \times 112,78 \mathrm{~mm} \mathrm{~L} \\ \quad[\varnothing 0.39 \mathrm{in} \times 4.44 \mathrm{in} \mathrm{L]} \end{gathered}$ |
|  | WAN02RSP | 02 |  | tilt/swivel | 2.2 | RP-SMA <br> plug/direct mount | $\begin{aligned} & \varnothing 9,91 \mathrm{~mm} \times 112,78 \mathrm{~mm} \mathrm{~L} \\ & \quad[\varnothing 0.39 \mathrm{in} \times 4.44 \mathrm{in} \mathrm{L]} \end{aligned}$ |
|  | WAN03RSP | 03 |  | flat | 3.0 | RP-SMA <br> plug/adhe- <br> sive mount | $\begin{gathered} \varnothing 7,87 \mathrm{~mm} \times 22,1 \mathrm{~mm} \mathrm{~W} \times \\ 4,57 \mathrm{~mm} \mathrm{D} \\ {[\varnothing 0.31 \mathrm{in} \times 0.87 \mathrm{in} \mathrm{~W} x} \\ 0.18 \mathrm{in} \mathrm{D]} \\ 3 \mathrm{~m} \mathrm{[9} \mathrm{ft}] \text { cable } \end{gathered}$ |
|  | WAN04RSP* | 04** <br> with a <br> WAMM100RSP-005 <br> base with <br> $1,52 \mathrm{~m}[5 \mathrm{ft}]$ of cable | 05** <br> with a <br> WAMM100RSP-010 base with $3,05 \mathrm{~m}$ [10 ft] of cable | tilt/swivel | 5.5 | RP-SMA <br> plug/direct mount | $\begin{aligned} & \varnothing 12,7 \mathrm{~mm} \times 208,28 \mathrm{~mm} \mathrm{~L} \\ & {[\varnothing 0.50 \mathrm{in} \times 8.20 \mathrm{in} \mathrm{L]}} \end{aligned}$ |
|  | WAN05RSP* | $\begin{gathered} \mathbf{0 6 * *} \\ \text { with a } \\ \text { WAMM100RSP-005 } \\ \text { base with } \\ 1,52 \mathrm{~m}[5 \mathrm{ft}] \text { of cable } \end{gathered}$ | 07** <br> with a <br> WAMM100RSP-010 base with $3,05 \mathrm{~m}$ [10 ft] of cable | tilt/swivel | 9.0 | RP-SMA plug/direct mount | $\begin{gathered} \varnothing 12,7 \mathrm{~mm} \times 384,05 \mathrm{~mm} \mathrm{~L} \\ {[\varnothing 0.50 \mathrm{in} \times 15.12 \mathrm{in} \mathrm{L]}} \end{gathered}$ |
|  | WAN06RNJ* | 08** <br> with a <br> WCA200RNPRSP-002 <br> coax cable assembly $0,682 \mathrm{~m}[2 \mathrm{ft}]$ | 09** <br> with a <br> WCA200RNPRSP-010 coax cable assembly 3,05 m [10 ft] | straight | 8.0 | RP-N jack/ bracket | $\begin{gathered} \varnothing 33,5 \mathrm{~mm} \times 427,9 \mathrm{~mm} \mathrm{~L} \\ {[\varnothing 1.32 \mathrm{in} \times 16.85 \mathrm{in} \mathrm{L]}} \end{gathered}$ |
|  | WAN07RSP | 11 |  | straight | 0.0 | RP-SMA <br> plug/direct mount | $\begin{aligned} & \varnothing 8,0 \mathrm{~mm} \times 30 \mathrm{~mm} \mathrm{~L} \\ & {[\varnothing 0.32 \mathrm{in} \times 1.18 \mathrm{in} \mathrm{L]}} \end{aligned}$ |
|  | WAN09RSP | - |  | low profile mobile | 3.0 | RP-SMA <br> plug/magnetic | $\begin{gathered} \varnothing 76,2 \mathrm{~mm} \times 115 \mathrm{~mm} \mathrm{~L} \\ {[\varnothing 3.0 \mathrm{in} \times 4.54 \mathrm{in} \mathrm{~L} \text { ] }} \\ 4,57 \mathrm{~m}[15 \mathrm{ft}] \text { cable } \end{gathered}$ |
|  | WAN10RSP | - |  | straight | 5.0 | RP-SMA plug/magnetic | $\begin{gathered} \varnothing 76,2 \mathrm{~mm} \times 230,1 \mathrm{~mm} \mathrm{~L} \\ {[\varnothing 3.0 \mathrm{in} \times 9.06 \mathrm{in} \mathrm{L]}} \\ 1,52 \mathrm{~m}[5 \mathrm{ft}] \text { cable } \end{gathered}$ |
|  | WAN11RSP* | - |  | low profile mobile dome | 4.0 | RP-SMA plug/thruhole screw | $\varnothing 39 \mathrm{~mm} \times 42,4 \mathrm{~mm} \mathrm{~L}$ <br> [ $\varnothing 1.54$ in $\times 1.67$ in L ] |

* Not allowed for use with Country Code "B" Limitless ${ }^{\text {TM }}$ products
** See Tables 4 and 12 for accessory descriptions


## Limitless ${ }^{\text {TM }}$ Wireless Heavy-Duty Limit Switches

ACCESSORIES
Table 12. Cable and Coax Accessories

| Photo | Part Number | Description |
| :---: | :---: | :---: |
|  | WCA200RNPRSP-002 | Limitless ${ }^{\text {TM }}$ Series wireless cable assembly wth 200 Series cable, 2 ft length, reverse polarity $N$ plug to reverse polarity SMA plug, use only with WANO6RNJ antenna |
|  | WCA200RNPRSP-010 | Limitless ${ }^{\text {TM }}$ Series wireless cable assembly wth 200 Series cable, 10 ft length, reverse polarity $N$ plug to reverse polarity SMA plug, use only with WANO6RNJ antenna |
|  | WCA200RNJRSP-002 | Limitless ${ }^{\text {TM }}$ Series wireless cable assembly wth 200 Series cable, 2 ft length, reverse polarity SMA jack to reverse polarity SMA plug |
|  | WCA200RNJRSP-005 | Limitless ${ }^{\text {TM }}$ Series wireless cable assembly wth 200 Series cable, 5 ft length, reverse polarity SMA jack to reverse polarity SMA plug |
|  | WCA200RNJRSP-010 | Limitless $^{\text {TM }}$ Series wireless cable assembly wth 200 Series cable, 10 ft length, reverse polarity SMA jack to reverse polarity SMA plug |
|  | WCA200RNJRSP-015 | Limitless ${ }^{\text {TM }}$ Series wireless cable assembly wth 200 Series cable, 15 ft length, reverse polarity SMA jack to reverse polarity SMA plug |
|  | WCA200RNJRSP-020 | Limitless $^{\text {™ }}$ Series wireless cable assembly wth 200 Series cable, 20 ft length, reverse polarity SMA jack to reverse polarity SMA plug |

Table 13. Base Accessories
Wart Number $\quad$ Magnetic antenna base with $1,52 \mathrm{~m}$ [5 ft] of cable

This Honeywell datasheet supports the following Limitless ${ }^{\text {TM }}$ WLS Series Listings

## WLS1A00AA

WLS1A00AA1A
WLS1A00AA1B
WLS1A00AA2A
WLS1A00AA2B
WLS1A00AA4M
WLS1A00AA4N
WLS1A00AC
WLS1A00AD
WLS1A00AE
WLS1A00AJ7A
WLS1A00AJ7M
WLS1A00AJ7N
WLS1A00AN
WLS1A00AN1A
WLS1A00AQ-4P01
WLS1A00AQBT1
WLS1A00AQBT2
WLS1A00AQBT3
WLS1A00AQBT4
WLS1A00AQRS1
WLS1A00AQRS2
WLS1A01AA1A
WLS1A01AA1B
WLS1A01AA1D
WLS1A01AA2A
WLS1A01AA2B
WLS1A01AA2D WLS1A01AA4M WLS1A01AA4N WLS1A01AC
WLS1A01AD
WLS1A01AN
WLS1A02AA1A
WLS1A02AA1B
WLS1A02AA2A
WLS1A02AA2B
WLS1A02AA4M
WLS1A02AA4N WLS1A02AC

## WLS1A02AD

WLS1A02AE WLS1A02AJ7M WLS1A02AN WLS1A02AN1A WLS1A02AQBT1 WLS1A02AQBT2 WLS1A02AQBT3 WLS1A02AQBT4 WLS1A02AQRS1 WLS1A02AQRS2 WLS1A11AA WLS1A11AA1A WLS1A11AA1D WLS1A11AA2A WLS1A11AA2A-3 WLS1A11AA2D WLS1A11AA2J WLS1A11AA2K WLS1A11AA4N WLS1A11AC WLS1A11AD WLS1A11AE WLS1A11AJ7A WLS1A11AN1A WLS1A11AQ-4P01 WLS1A11AQBT1 WLS1A11AQBT2 WLS1A11AQBT3 WLS1A11AQBT4 WLS1A11AQ-P01 WLS1A11AQ-P02 WLS1A11AQRS1 WLS1A11AQRS2 WLS1A11AV WLS1A00BA WLS1A00BA1A WLS1A00BA1B WLS1A00BA2A WLS1A00BA2B

WLS1A00BA4M WLS1A00BC
WLS1A00BD WLS1AOOBE WLS1A00BN WLS1A00BQ-4P01 WLS1A00BQBT1 WLS1A00BQBT3 WLS1A00BQRS 1 WLS1A00BQRS2 WLS1A01BA1A WLS1A01BA1B WLS1A01BA2A WLS1A01BA2B WLS1A01BC WLS1A01BD WLS1A01BN WLS1A02BA1A WLS1A02BA1B WLS1A02BA2A WLS1A02BA2B WLS1A02BA4M WLS1A02BC WLS1A02BD WLS1A02BE WLS1A02BN WLS1A02BQBT1 WLS1A02BQBT3 WLS1A02BQRS1 WLS1A02BQRS2 WLS1A11BA2K WLS1A11BD WLS1A11BE WLS1A11BQ-4P01 WLS1A11BQBT1 WLS1A11BQBT3 WLS1A11BQ-P01 WLS1A11BQ-P02 WLS1A11BQRS1
WLS1A11BQRS2

## ADDITIONAL INFORMATION

The following associated literature is available on the Honeywell web site at sensing.honeywell.com:

- Product installation instructions
- Product range guide
- Product brochure
- White Paper: Limitless ${ }^{\text {TM }}$ Switches Offer Unlimited Benefits


## A WARNING PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.
Failure to comply with these instructions could result in death or serious injury.

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- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
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Failure to comply with these instructions could result in death or serious injury.


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Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

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[^0]:    *Actual range may vary depending upon antennas, cables, and topography.
    ** "Line of sight" is not mandatory to fully utilize the Limitless ${ }^{\top M}$ technology and thus testing in the actual application will determine suitability.

[^1]:    *Actual range may vary depending upon antennas, cables, and topography.
    ** "Line of sight" is not mandatory to fully utilize the Limitless ${ }^{\top M}$ technology and thus testing in the actual application will determine suitability.

[^2]:    *Actual range may vary depending upon antennas, cables, and topography.
    ** "Line of sight" is not mandatory to fully utilize the Limitless ${ }^{\top M}$ technology and thus testing in the actual application will determine suitability.

