

**Limitless™ Wireless Solutions**

**Honeywell**



**Imagine a world without wires.  
What would you do with more freedom?**



It's time to retire the wire. To give your best ideas free rein. Honeywell's Limitless™ Series of wireless limit switches and receivers allows you to go farther, work smarter, and explore more possibilities than ever before.

Honeywell's Limitless™ series of switch solutions is leading the way. Honeywell Sensing and Control developed this technology to be a cutting-edge, cost-saving solution. That innovation starts whether you're retrofitting into an existing industrial or transportation application, or starting a new design. Now you have the freedom to push your designs and applications further and expand your vision.

For far too long, technology has been tied to the same old way of transmitting and connecting. But there's a price to pay for clinging to wired technology. There's an intangible cost in man-hours and missed production hours. And there are tangible costs — actual wear-and tear on equipment wiring and connections that can cause complete disruption of your operation.

Imagine how much could be saved once your best ideas were given free rein...



It's time to discover the possibilities.  
Choose wireless Limitless™  
switches to give your ideas free rein.

**More distance** - Limitless™ devices have up to a 305 m [1000 ft] line-of-sight range without using repeaters, depending on antenna type

**More durability** - Limitless™ Series offerings will include versions with an all-metal body and drive train, low-temperature capability, and/or enclosure with an anti-corrosion epoxy coating

**More savings** - Limitless™ switches can greatly reduce the costs of wiring, installation, and maintenance for all devices and equipment

**More security** - Limitless™ products conform to the international IEEE 802.15.4 standard and feature 16-bit address and 128-bit AES security keys

**More flexibility** - Since you're no longer tethered by wire, you can reconfigure and network multiple switches, easily allowing addition, subtraction, or relocation of Limitless™ switches

**More diagnostics** - Limitless™ user-friendly software provides information on battery health, and signal strength for each specific input

**More standard options** - Limitless™ products use a globally license-free, 802.15.4 RF radio and commercially available batteries for easy replacement anywhere in the world

# Limitless™ Limit Switch Series

WGLA Global Limit Switches

WLS Heavy-Duty Limit Switches

Honeywell's Limitless™ product line combines the best of Honeywell's global limit switches with the latest commercial state-of-the-art wireless technology. Wireless-enabled limit switches can be used for position sensing and presence/absence detection for an endless number of applications.

The Limitless™ 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 for machines, equipment, OEMs, and operators.

## FEATURES

### Wireless Design

- Radio (license-free and global\*): WPAN 802.15.4, 2.4 GHz, point-to-point
- FCC 15, IC, ACMA, COFETEL, IDA, and ETSI
- RoHS compliant
- EMI resistance protects against external interference
- In excess of 305 m [1000 ft] line-of-sight communication
- Reliable, flexible, and secure wireless transmission
- Standard replaceable battery with ultra-low power consumption
- Direct or remote mount antenna options

### WGLA Series Features

- EN50041 metal enclosure
- IP67; NEMA 1,4,12,13
- Multiple operating heads and lever options
- Modular construction of components

### WLS Series Features

- EN 50041 metal enclosure
- IP67/IP68; NEMA 1, 3, 4, 6, 6P, 12, 13
- Unique all-metal drive train
- Twin shaft seals (rotary)
- Zinc head and body are phosphate treated and epoxy finished making it less susceptible to effects from environmental exposure
- Full complement of operating heads and levers
- Chemical resistant fluorocarbon seals (optional)

## BENEFITS

- Enables wireless presence/absence detection in applications/machinery where wiring is challenging or not feasible
- Integration of existing wireless technology with the superior reliability of Honeywell's MICRO SWITCH™ limit switch series
- Ability to reconfigure and network multiple switches, easily allowing addition, subtraction or relocation of Limitless™ switches in the application
- Reduces installation/maintenance costs with no wires, conduit, strain relief, clips, connectors, or connection boxes
- Output options
  - Panel-mount monitor: visual, audible (buzzer), one NPN output
  - DIN-mount receiver: visual, 14 NPN/PNP-type outputs
- Consumes ultra-low power to prolong battery life (replaceable)
- RF board operating in 2.4 GHz globally license-free frequency band; WPAN 802.15.4
- SIL reliability data available upon request



## APPLICATIONS

- Construction/ag machines
- Conveyors
- Crane boom/jib/skew position
- Door position
- Grain diverters or flaps
- Hose attachment verification
- Lifts
- Material handling
- Movable machinery
- Presses
- Remote or temporary equipment
- Specialty machines
- Valve position

\*Some countries require specific communication certifications. Contact Honeywell for existing certification information.



**WGLA Series**



**WLS Series**

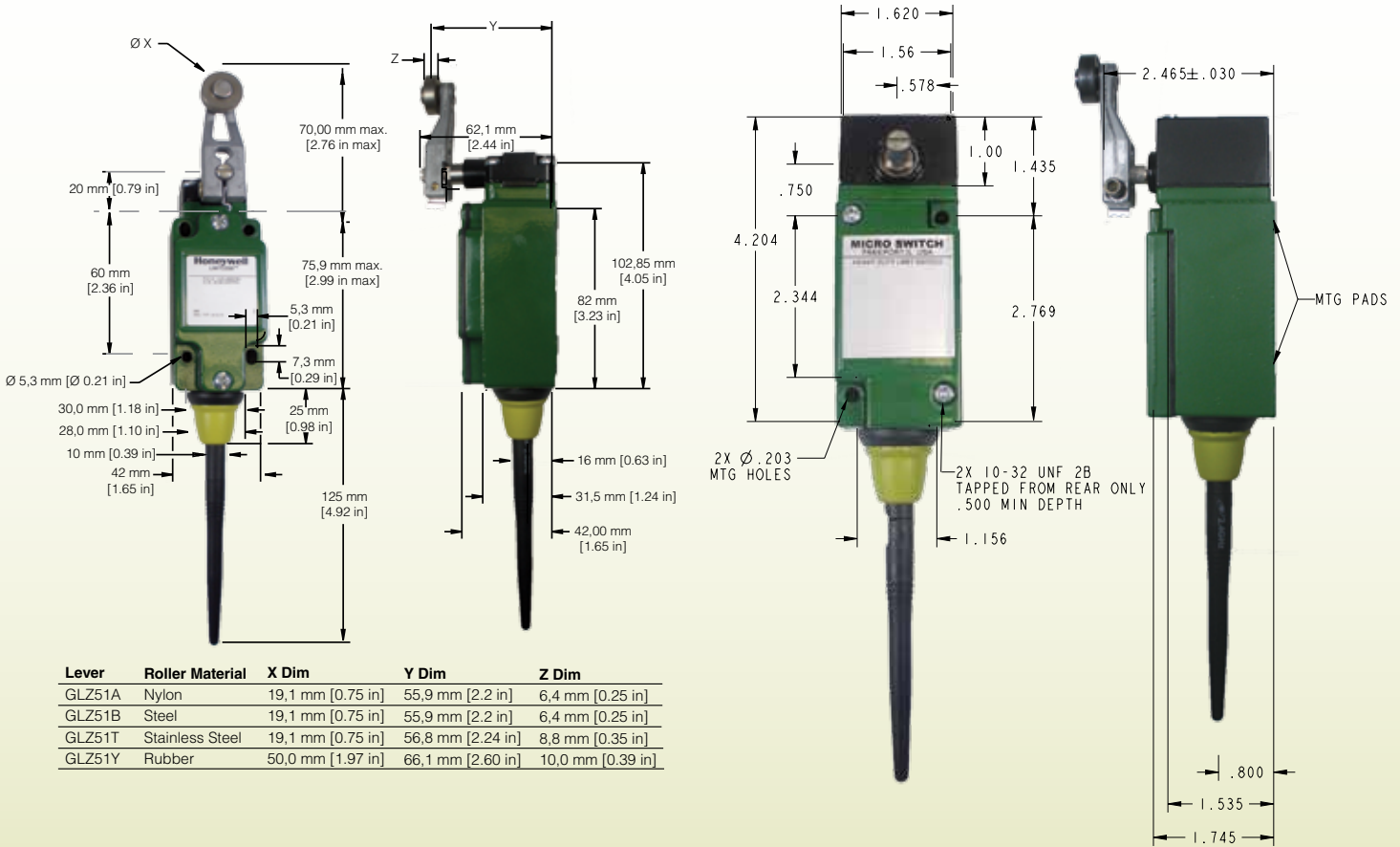
Limitless™ global limit switches	<b>Product type</b>	Limitless™ heavy-duty limit switches
Global, license-free RF bands*	<b>Availability</b>	Global, license-free RF bands*
Reference WGLA installation drawing	<b>Operating characteristics</b>	Reference WLS installation drawing
Side rotary, top plunger, top roller, top roller lever	<b>Actuator</b>	Side rotary, top plunger, top roller plunger, top adjustable plunger, wobble stick
Rotary lever included w/side rotary; other lever options available	<b>Lever type</b>	Many rotary lever options available
Zinc head and body are phosphate treated and epoxy finished	<b>Housing material</b>	Zinc head and body are phosphate treated and epoxy finished
EN 50041	<b>Housing type</b>	WLS (EN 50041)
WPAN 802.15.4; 2.4 GHz point-to-point; specific country communication agency approval required	<b>Radio</b>	WPAN 802.15.4; 2.4 GHz point-to-point; specific country communication agency approval required
Direct or remote-mount antenna options; omni-directional	<b>Antenna type</b>	Direct or remote-mount antenna options; omni-directional
In excess of 305 m [1000 ft] line-of-sight communication between Limitless™ switches and monitor/receiver when using 2.2dBi integral antenna	<b>Signal range</b>	In excess of 305 m [1000 ft] line-of-sight communication between Limitless™ switches and monitor/receiver when using 2.2dBi integral antenna
3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size manufactured by Uniwell, p/n DEV-10-0009; or Green Energy p/n ER14335M	<b>Battery</b>	3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size manufactured by Uniwell, p/n DEV-10-0009; or Green Energy p/n ER14335M
IP67; NEMA 1, 4, 12, 13	<b>Sealing</b>	IP67, IP68; NEMA 1, 3, 4, 6, 6P, 12, 13
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	<b>EMC</b>	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
IEC 60068-2-27; half sine, 10 g, 6 mS, 3 axis	<b>Shock</b>	IEC 60068-2-27; half sine, 50 g, 6 mS, 3 axis
IEC 60068-2-6; 10 Hz to 500 Hz w/ 0,35 mm peak-to-peak, 58 Hz to 500 Hz, 5 g	<b>Vibration</b>	IEC 60068-2-6; 10 Hz to 58 Hz w/ 0,35 mm peak-to-peak, 58 Hz to 500 Hz, 5 g
-40 °C to 85 °C [-40 °F to 185 °F] (side rotary) -25 °C to 85 °C [-13 °F to 185 °F] (all other actuators)	<b>Operating temperature</b>	-40 °C to 85 °C [-40 °F to 185 °F] -30 °C to 85 °C [-22 °F to 185 °F](wobble sticks)
FCC 15.247 Industry Canada RSS 210 ETSI, CE mark ACMA, C-Tick mark COFETEL IDA	<b>Agency approvals and standards</b>	FCC 15.247 Industry Canada RSS 210 ETSI, CE mark ACMA, C-Tick mark COFETEL IDA

\*Some countries require specific communication certifications.  
Contact Honeywell for existing certification information.

# Limitless™ Limit Switch Series

## WGLA and WLS Series

### Dimensions and Ordering Options



Lever	Roller Material	X Dim	Y Dim	Z Dim
GLZ51A	Nylon	19,1 mm [0.75 in]	55,9 mm [2.2 in]	6,4 mm [0.25 in]
GLZ51B	Steel	19,1 mm [0.75 in]	55,9 mm [2.2 in]	6,4 mm [0.25 in]
GLZ51T	Stainless Steel	19,1 mm [0.75 in]	56,8 mm [2.24 in]	8,8 mm [0.35 in]
GLZ51Y	Rubber	50,0 mm [1.97 in]	66,1 mm [2.60 in]	10,0 mm [0.39 in]

**WGLA**  
Switch type  
**WGLA Series**  
Wireless

Gen Code	RF Code	Antenna type code	Country use code	Operating head code	Lever code <sup>4</sup>	Roller code mm[in]	Modification code
<b>1</b> Version 1	<b>A</b> 2.4 GHz; IEEE 802.15.4	<b>00</b> No antenna; RP-SMA connector jack	<b>A</b> US, Canada, Mexico	<b>A</b> Side rotary, momentary	Not applicable	Not applicable	Not applicable
		<b>01</b> 2.2 dBi omni w/switch mount; straight design	<b>B</b> All other approved countries <sup>1, 2, 3</sup>	<b>B</b> Top pin plunger	<b>1</b> Standard fixed length	<b>A</b> 19 x 6.35 [0.75 x 0.25] nylon	<b>3</b> Head assembled with actuator to right side
		<b>02</b> 2.2 dBi omni w/switch mount; tilt/swivel	*Use with antenna type codes 00 - 03, 05, 10, 11 only; usage also allowed in Country Code A.  *Some countries require specific communication certifications. Contact Honeywell for existing certification information.  *If Limitless devices are used on machinery that may shipped globally, use country code "B".	<b>C</b> Top roller plunger	<b>2</b> Adjustable roller	<b>B</b> 19 x 6.35 [0.75 x 0.25] steel	<b>4</b> Head assembled with actuator to left side
		<b>03</b> 3.0 dBi omni w/remote adhesive mount 9.8 ft cable		<b>D</b> Top roller lever	<b>3</b> Yoke roller	<b>D</b> 38,1 x 6.35 [1.5 x 0.25] nylon	<b>5</b> Head assembled with actuator to mounting surface
		<b>04</b> 5.5 dBi omni w/remote mag. mount, tilt/swivel, 5 ft cable		<b>4</b> Adjustable rod	<b>4</b> Adjustable rod	<b>J</b> 200 mm aluminum adjustable rod	<b>6</b> Roller perpendicular to mounting surface
		<b>05</b> 5.5 dBi omni w/remote mag. mount, tilt/swivel, 10 ft cable		<b>5</b> Offset	<b>5</b> Offset	<b>K</b> 140 mm aluminum adjustable rod	
		<b>06</b> 9.0 dBi omni w/remote mag. mount, tilt/swivel 5 ft cable				<b>N</b> 318 mm stainless steel adjustable rod	
		<b>07</b> 9.0 dBi omni w/remote mag. mount, tilt/swivel 10ft cable				<b>W</b> 40,0 x 12,7 [1.5 x 0.5] rubber	
		<b>08</b> 8,0 dBi omni w/remote bkt. mount, str. design 3 ft cable				<b>Y</b> 50,9 x 12,7 [2.0 x 0.5] rubber	
		<b>09</b> 8,0 dBi omni w/remote bkt. mount, str. design 11 ft cable				<b>T</b> 19 x 8,76 [0.75 x 0.345] stainless steel	
		<b>10</b> 2.2 dBi omni w/remote mag. mount, tilt/swivel 10 ft cable					
		<b>11</b> 0 dBi omni w/switch mount; straight design					

NOTE: Not all combinations available. For further information on establishing any of the above listings, please contact Honeywell Sensing and Control or your local sales office.



**WLS**  
Switch type  
**WLS Series**  
Wireless

**1**  
Gen Code

**A**  
RF Code

**00**  
Antenna type code

**A**  
Country use code

**A**  
Operating head code

**1**  
Actuator code

**3**  
Modification code

**1** Version 1

**A** 2.4 GHz;  
IEEE 802.15.4

**00** No antenna; RP-SMA connector jack

**01** 2.2 dBi omni w/switch mount; straight design

**02** 2.2 dBi omni w/switch mount; tilt/swivel

**03** 3.0 dBi omni w/remote adhesive mount 9.8 ft cable

**04** 5.5 dBi omni w/remote mag. mount, tilt/swivel 5 ft cable

**05** 5.5 dBi omni w/remote mag. mount, tilt/swivel 10ft cable

**06** 9.0 dBi omni w/remote mag. mount, tilt/swivel 5 ft cable

**07** 9.0 dBi omni w/remote mag. mount, tilt/swivel 10ft cable

**08** 8.0 dBi omni w/remote bkt. mount, str. design 3 ft cable

**09** 8.0 dBi omni w/remote bkt. mount, str. design 11 ft cable

**10** 2.2 dBi omni w/remote mag. mount, tilt/swivel 10 ft cable

**11** 0 dBi omni w/switch mount; straight design

**A** US, Canada, Mexico  
**B** All other approved countries<sup>1, 2, 3</sup>

<sup>1</sup>Use with antenna type codes 00 - 03, 05, 10, 11 only; usage also allowed in Country Code A.

<sup>2</sup>Some countries require specific communication certifications. Contact Honeywell for existing certification information.

<sup>3</sup>If Limitless devices are used on machinery that may shipped globally, use country code "B".

**A** Side rotary, momentary  
**C** Top plunger, plain  
**D** Top plunger, roller  
**J** Wobble stick<sup>4</sup>  
**N** Side rotary, maintained  
**V** Top plunger, adjustable

<sup>4</sup>See page 14 for more detail.

See WLS actuator code table for details.

Actuators for operating head code "A" only, insert actuator code from table below.

OR

Order actuator catalog listing separately for reduced delivery time.

Not applicable  
**3** Head assembled with actuator to right side  
**4** Head assembled with actuator to left side  
**5** Head assembled with actuator to mounting surface  
**6** Roller perpendicular to mounting surface



NOTE: Not all combinations available. For further information on establishing any of the above listings, please contact Honeywell Sensing and Control or your local sales office.

**EXAMPLE: WLS1A01AA1A (ordered with lever included)**

Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, momentary, standard lever with nylon roller

**EXAMPLE: WLS1A01AA (order lever separately)**

Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, momentary. LSZ51A (standard lever with nylon roller) ordered separately,

**WLS SERIES ACTUATOR CODE TABLE** (see page 9 for more detail)

Code	Catalog Listing	Material	Roller Dia. (in)	Roller Width (in)	Roller Mounting
<b>Fixed 1.5 inch radius</b>					
1		Rollerless	n/a	n/a	n/a
1A	LSZ51A	Nylon	0.75	0.25	Front
1B	LSZ51B	Steel	0.75	0.25	Front
1C	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
1J	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
1P	LSZ51P	Nylon	0.75	0.50	Front
<b>Adjustable 1.5 in to 3.5 in radius</b>					
2		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
2J	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
<b>Yoke – 1.5 in radius</b>					
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
<b>Yoke – 1.5 in radius , continued</b>					
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
3S	LSZ53S	Nylon	0.75	0.25	Back/Back
<b>Rod</b>					
4		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	Spring Wire, 12 in	n/a	n/a	n/a
4V	LSZ54V	Flex cable, 4.8 in	n/a	n/a	n/a
<b>Offset – 1.5 in radius</b>					
5		Rollerless	n/a	n/a	n/a
5A	LSZ55A	Nylon	0.75	0.25	Back
5B	LSZ55B	Steel	0.75	0.25	Back
5C	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
<b>Wobble stick</b>					
7A	LSZ1JGA	Delrin™ 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
<b>Short fixed - 1.3 in radius</b>					
9A	LSZ59A	Nylon	0.75	0.25	Front
9B	LSZ59B	Steel	0.75	0.25	Front
9C	LSZ59C	Nylon	0.75	0.25	Back
9D	LSZ59D	Steel	0.75	0.25	Back

# Limitless™ Limit Switch Series

## WGLA Series

### Levers



**GLZ51A**  
fixed rotary lever,  
nylon roller, front



**GLZ51B**  
fixed rotary lever,  
steel roller, front



**GLZ55A**  
fixed rotary offset  
lever, nylon roller,  
front



**GLZ55B**  
fixed rotary offset  
lever, steel roller, front



**GLZ53A**  
yoke lever, nylon rollers,  
front placement



**GLZ53B**  
yoke lever, steel rollers,  
front placement



**GLZ52A**  
adj. lever,  
nylon roller, back



**GLZ52B**  
adj. lever,  
steel roller, back



**GLZ52C/D**  
adj. lever,  
nylon & steel roller,  
front



**GLZ54J**  
adjustable rod,  
200 mm aluminum



**GLZ54K**  
adjustable rod,  
140 mm aluminum



**GLZ54N**  
adjustable rod,  
318 mm stainless  
steel



# Limitless™ Limit Switch Series

## WLS Series

### Levers



**LSZ51A**  
fixed rotary lever,  
nylon roller, front



**LSZ51B**  
fixed rotary lever,  
steel roller, front



**LSZ51C**  
fixed rotary lever,  
nylon roller, back



**LSZ51D**  
fixed rotary lever,  
steel roller, back



**LSZ55A**  
through D  
offset lever,  
front & back



**LSZ60**  
one-way  
roller lever



**LSZ53A through D**  
yoke lever, nylon and steel rollers,  
front and back placement



**LSZ52A**  
through D  
adj. lever, nylon &  
steel, front/back



**LSZ52J**  
adjustable lever,  
1-inch nylon roller



**LSZ52K**  
adjustable lever,  
1.5-inch nylon roller



**LSZ54M**  
5.5-inch  
aluminum rod



**LSZ61**  
6-inch  
loop



**LSZ54R**  
12-inch  
spring wire



**LSZ68**  
12-inch rod  
with spring



**LSZ54N**  
13-inch  
stainless steel  
rod

# Limitless™ Monitor and Receiver

## WPMM Wireless Panel-Mount Monitor

## WDRR Wireless DIN-Rail Receiver

Limitless™ WPMM Series wireless panel-mount monitors provide a visual, audio, and NPN output based on a signal received from a Limitless™ input. Limitless™ WPMM monitors offer quick indication of an actuator position change on a paired Limitless™ wireless limit switch.

The WDRR Series DIN-Rail receiver accommodates up to 14 Limitless™ digital inputs for applications that need more than one-input/one-receiver configuration. It provides a separate visual and selectable NPN- or PNP-type output for indication of a change on a Limitless™ input.

### WPMM FEATURES

#### Wireless Electrical Design

- Radio (license-free and global\*): WPAN 802.15.4, 2.4 GHz, point-to-point
- FCC 15, IC, ACMA, ETSI, COFETEL, and IDA
- RoHS compliant
- EMI resistance protects against external interference
- In excess of 305 m [1000 ft] line-of-sight communication
- Reliable, flexible, and secure wireless transmission
- 10 Vdc to 30 Vdc supply with one NPN configurable normally open or normally closed output
- Diagnostic functions include lost RF and low battery indication
- Designed primarily for single switch applications, but can monitor multiple wireless switches (*sold separately*)
- Field pairing function allows for rapid configuration

#### Mechanical Design

- Panel-mount enclosure (snap-in or screw mount)
- Polycarbonate, shock resistant, tamper-proof case
- Sealed to IP67
- Multiple LED function/status indicators with audible buzzer (configurable to silent)
- Direct or remote-mount antenna

### WDRR FEATURES

#### Wireless Electrical Design

- Selectable NPN- or PNP-type output
- Fourteen configurable normally open or normally closed outputs for up to 14 Limitless™ inputs (*sold separately*)
- Reliable, flexible, and secure wireless transmission
- Radio (license-free and global\*): WPAN 802.15.4, 2.4 GHz, point-to-point
- In excess of 305 m [1000 ft] line-of-sight communication between Limitless™ switches and monitor/receiver when using 2.2dBi integral antenna
- FCC 15, IC, ACMA, ETSI, COFETEL, and IDA
- RoHS compliant
- Field pairing allows for rapid adding or subtracting inputs for quick configuration
- 10 Vdc to 28 Vdc supply
- Diagnostic functions include lost RF and low battery indication

#### Mechanical Design

- DIN Rail or screw mount
- Cage clamp screw terminal blocks for input/output connections
- Sealed to IP20
- Multiple LED function and status indicators
- LED RF signal strength indication for up to 14 Limitless™ inputs
- Direct or remote mount antenna

### LIMITLESS™ SERIES BENEFITS

- Ability to reconfigure and network multiple switches, or point-to-point with personalized addresses that allow for adding, subtracting or relocating Limitless™ switches easily
- Reduced installation/maintenance costs with no wiring, conduit, strain relief, clips, connectors, connection boxes, etc.
- Communication security per the IEEE 802.15.4 standard [16-bit PAN (network) ID, 16-bit address and 128-bit security key]
- Eliminates issues with wire and connector integrity on moving equipment



### APPLICATIONS

- Construction/ag machines
- Conveyors
- Crane boom/jib/skew position
- Door position
- Grain diverters or flaps
- Hose attachment verification
- Lifts
- Material handling
- Movable machinery
- Presses
- Remote or temporary equipment
- Specialty machines
- Valve position

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**WPMM Series**



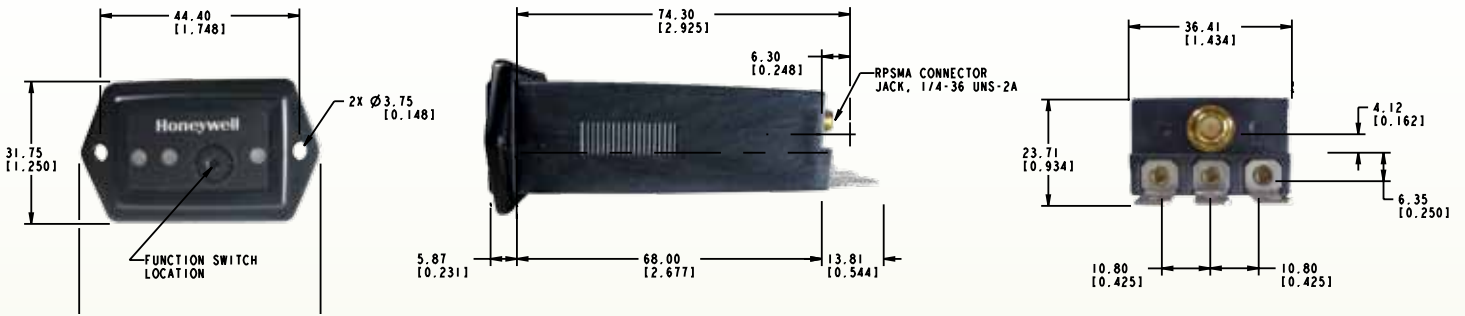
**WDRR Series**

Limitless™ wireless panel mount monitor	<b>Product type</b>	Limitless™ wireless din-rail receiver (PLC interface)
WPMM Series	<b>Series name</b>	WDRR Series
Global, license-free RF bands*	<b>Availability</b>	Global, license-free RF bands*
LCP, VECTRA E130i	<b>Housing material</b>	Flame retardant ABS
Snap-in panel or screw-mount design	<b>Housing type</b>	DIN-Rail or screw-mount design
WPAN 802.15.4, 2.4 GHz point to point	<b>Radio type</b>	WPAN 802.15.4, 2.4 GHz point-to-point
RP-SMA jack for direct mount or remote antenna options; omni-directional standard	<b>Antenna type</b>	RP-SMA jack for direct mount or remote antenna options; omni-directional standard
In excess of 305 m [1000 ft] line-of-sight communication between Limitless™ switches and monitor/receiver when using 2.2 dBi integral antenna	<b>Signal range</b>	In excess of 305 m [1000 ft] line-of-sight communication between Limitless™ switches and monitor/receiver when using 2.2 dBi integral antenna
Three LEDs: green, yellow, red Power indication: green Output indication: red Configuration/diagnostic: green, yellow, red Buzzer (output indic, config/diag) w/ silent option	<b>Indication</b>	Configuration LEDs: green, yellow, red 14 output/diagnostic LEDs: green, yellow, red Low battery & lost RF output LEDs: red, green RF signal strength LEDs: blue
10 Vdc to 30 Vdc	<b>Supply voltage</b>	10 Vdc to 28 Vdc
750 mA max.	<b>Supply current</b>	500 mA max.
NPN current sinking open collector; configurable normally open or normally closed	<b>Output type</b>	Selectable: NPN-type current sinking open collector or NPN-type “totem pole”; PNP-type current sourcing open collector or PNP-type “totem pole”
5 mA to 200 mA	<b>Load current</b>	10 mA max.
50 uA max.	<b>Leakage current</b>	100 uA max.
1.75 Vdc max. @ max. load @ 25 °C [77 °F]	<b>Voltage drop</b>	2.0 Vdc max. @ max. load @ 25 °C [77 °F]
3	<b>Terminal(s)</b>	18 usable
Quick connect, 0.25 in male blade	<b>Termination</b>	Cage-clamp screw terminal blocks
IP67	<b>Sealing</b>	IP20
Yes	<b>Reverse polarity protection</b>	Yes
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	<b>EMC</b>	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
IEC 60068-2-27; half sine, 10 g, 6 mS, 3 axis	<b>Shock</b>	IEC 60068-2-27; Half sine, 10 g, 6 mS, 3 axis
IEC 60068-2-6; 10 Hz to 500 Hz w/ 0,35 mm peak-to-peak, 58 Hz to 500 Hz- 5 g	<b>Vibration</b>	IEC 60068-2-6; 10-500Hz w/ 0,35 mm peak-to-peak, 58-500 Hz- 5 g
-40 °C to 85 °C [-40 °F to 185 °F]	<b>Operating temp.</b>	-20 °C to 70 °C [-4 °F to 158 °F]
FCC 15.247; IC RSS 210, ETSI, CE mark; ACMA, C-TICK; COFETEL; IDA	<b>Agency approvals and standards</b>	FCC 15.247; IC RSS 210, ETSI, CE mark; ACMA, C-TICK; COFETEL; IDA
31,87 mm H x 44,40 mm W x 74,30 mm D [1.25 in H x 1.748 in W x 2.925 in D] ref.	<b>Size</b>	88,9 mm H x 152,4 mm W x 38,1 mm D [3.5 in H x 6 in W x 1.5 in D] ref.

\*Some countries require specific communication certifications.  
Contact Honeywell for existing certification information.

# Limitless™ Monitor

## WPMM Wireless Panel-Mount Monitor Dimensions and Ordering Options



All dimensions for reference only.

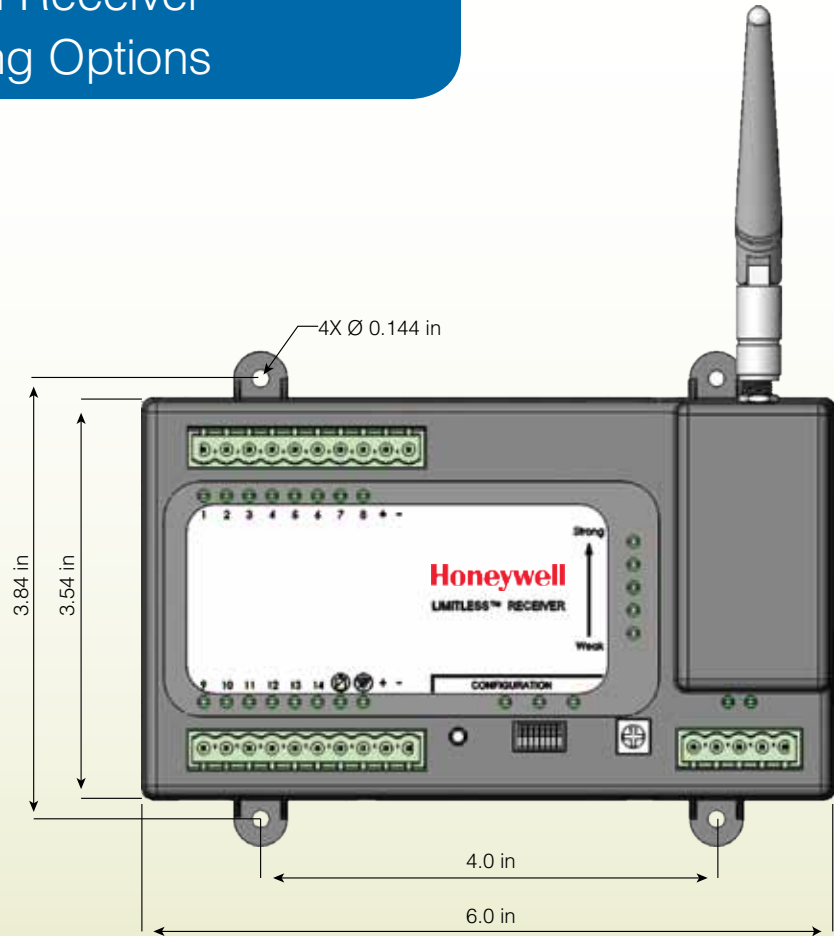
WPMM	1	A	00	A
Switch type	Gen Code	RF Code	Antenna type code	Country use code
<b>WPMM Series Monitor</b>	<b>1</b> Version 1	<b>A</b> 2.4 GHz; IEEE 802.15.4	<b>00</b> No antenna; RP-SMA connector jack	<b>A</b> US, Canada, Mexico
			<b>01</b> 2.2 dBi omni w/switch mount, straight design	<b>B</b> All other approved countries <sup>1, 2, 3</sup>
			<b>02</b> 2.2 dBi omni w/switch mount; tilt/swivel	<sup>1</sup> Use with antenna type codes 00 - 03, 05, 10, 11 only; usage also allowed in Country Code A.
			<b>03</b> 3.0 dBi omni w/remote adhesive mount 9.8 ft cable	<sup>2</sup> Some countries require specific communication certifications. Contact Honeywell for existing certification information.
			<b>04</b> 5.5 dBi omni w/remote mag. mount, tilt/swivel 5 ft cable	<sup>3</sup> If Limitless devices are used on machinery that may shipped globally, use country code "B".
			<b>05</b> 5.5 dBi omni w/remote mag. mount, tilt/swivel 10ft cable	
			<b>06</b> 9.0 dBi omni w/remote mag. mount, tilt/swivel 5 ft cable	
			<b>07</b> 9.0 dBi omni w/remote mag. mount, tilt/swivel 10ft cable	
			<b>08</b> 8.0 dBi omni w/remote bkt. mount, str. design 3 ft cable	
			<b>09</b> 8.0 dBi omni w/remote bkt. mount, str. design 11 ft cable	
			<b>10</b> 2.2 dBi omni w/remote mag. mount, tilt/swivel 10 ft cable	





# Limitless™ Receiver

## WDRR Wireless Din-Rail Receiver Dimensions and Ordering Options



WDRR	1	A	00	A	0	A
Switch type	GEN code	RF Code	Antenna type code	Country use code	Output code	Channel code
<b>WDRR Series</b> Din-Rail Receiver	<b>1</b> Version 1	<b>A</b> 2.4 GHz; IEEE 802.15.4	<b>00</b> No antenna; RP-SMA connector jack	<b>A</b> US, Canada Mexico	<b>0</b> NPN/PNP selectable	<b>A</b> 14 channels
			<b>01</b> 2.2 dBi omni w/switch mount; straight design	<b>B</b> All other approved countries <sup>1,2,3</sup>		
			<b>02</b> 2.2 dBi omni w/switch mount; tilt/swivel	<sup>1</sup> Use with antenna type codes 00 - 03, 05, 10, 11 only; usage allowed in Country Code A.		
			<b>03</b> 3.0 dBi omni w/remote adhesive mount 9.8 ft cable	<sup>2</sup> Some countries require specific communication certifications. Contact Honeywell for existing certification information.		
			<b>04</b> 5.5 dBi omni w/remote mag. mount, tilt/swivel 5 ft cable	<sup>3</sup> If Limitless™ devices are used on machinery that may be shipped globally, use country code "B".		
			<b>05</b> 5.5 dBi omni w/remote mag. mount, tilt/swivel 10 ft cable			
			<b>06</b> 9.0 dBi omni w/remote mag. mount, tilt/swivel 5 ft cable			
			<b>07</b> 9.0 dBi omni w/remote mag. mount, tilt/swivel 10 ft cable			
			<b>08</b> 8.0 dBi omni w/remote bkt. mount, str. design 3 ft cable			
			<b>09</b> 8.0 dBi omni w/remote bkt. mount, str. design 11 ft cable			
			<b>10</b> 2.2 dBi omni w/remote mag. mount, tilt/swivel 10 ft cable			

# Limitless™ Limit Switch Series

WLS Series

Operating Heads with Wobble Sticks



**LSZ1JGM**  
13.0 inch spring wire wobble



**LSZ1JGA**  
5.5 inch Delrin® rod wobble



**LSZ1JGN**  
5.5 inch cable wobble



Limitless™ switch actuators may be custom designed by Honeywell S&C's engineering team to ensure optimum actuation for specific applications.

# Limitless™ Series

## Accessories



**WAN07RSP**  
straight design,  
direct mount  
connector



**WAN01RSP**  
straight design,  
direct mount  
connector



**WAN02RSP**  
tilt & swivel design,  
direct mount  
connector



**WAN05RSP &  
WAMM100RSP-005**  
T/S, magnetic mount



**WAN03RSP**  
flat design,  
adhesive mount



**WAN06RNJ**  
straight design,  
bracket mount



**WPB1**  
WPMM mounting  
bracket



**WAN10RSP**  
straight mobile  
antenna,  
magnetic mount



**WAN11RSP**  
low-profile dome antenna,  
through-hole screw mount



**WAN09RSP**  
low-profile mobile antenna,  
magnetic mount



**WPR1**  
WPMM panel mount  
retainer



**WCA200 Series**  
200 series coax cable assembly  
available in a variety of lengths



**WAMM100RSP-005/010**  
100 series coax antenna mount  
available in 5 ft. and 10 ft. lengths

# Limitless™ Series

## WGLA Standard Listings

### Limitless™ WGLA Global Limit Switches for use in US/Canada/Mexico

#### Side rotary

WGLA	1A01	A	A1A	Limitless™ WGLA, 2.2 dBi straight antenna, momentary, standard lever with nylon roller
WGLA	1A01	A	A1B	Limitless™ WGLA, 2.2 dBi straight antenna, momentary, standard lever with steel roller
WGLA	1A01	A	A4J	Limitless™ WGLA, 2.2 dBi straight antenna, momentary, 200 mm aluminum adjustable rod actuator
WGLA	1A02	A	A1A	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, momentary, standard lever with nylon roller
WGLA	1A02	A	A1B	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, momentary, standard lever with steel roller
WGLA	1A02	A	A4J	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, momentary, 200 mm aluminum adjustable rod actuator
WGLA	1A04	A	A1A	Limitless™ WGLA, 5.5 dBi remote magnetic mount/t&s antenna with 5ft of cable, momentary, standard lever with nylon roller
WGLA	1A04	A	A1B	Limitless™ WGLA, 5.5 dBi remote magnetic mount/t&s antenna with 5ft of cable, momentary, standard lever with steel roller
WGLA	1A04	A	A4J	Limitless™ WGLA,, 5.5 dBi remote magnetic mount/t&s antenna with 5ft of cable, momentary, 200 mm aluminum adj. rod

#### Top actuators

WGLA	1A01	A	B	Limitless™ WGLA, 2.2 dBi straight antenna, top pin plunger
WGLA	1A01	A	C	Limitless™ WGLA, 2.2 dBi straight antenna, top roller plunger
WGLA	1A01	A	D	Limitless™ WGLA, 2.2 dBi straight antenna, top roller lever
WGLA	1A02	A	B	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, top pin plunger
WGLA	1A02	A	C	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, top roller plunger
WGLA	1A02	A	D	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, top roller lever
WGLA	1A04	A	B	Limitless™ WGLA, 5.5 dBi remote magnetic mount/tilt & swivel antenna with 5 ft of cable, top pin plunger
WGLA	1A04	A	C	Limitless™ WGLA, 5.5 dBi remote magnetic mount/tilt & swivel antenna with 5 ft of cable, top roller plunger
WGLA	1A04	A	D	Limitless™ WGLA, 5.5 dBi remote magnetic mount/tilt & swivel antenna with 5 ft of cable, top roller lever

### Limitless™ WGLA Global Limit Switches for use in all other approved countries

#### Side rotary

WGLA	1A01	B	A1A	Limitless™ WGLA, 2.2 dBi straight antenna, momentary, standard lever with nylon roller
WGLA	1A01	B	A1B	Limitless™ WGLA, 2.2 dBi straight antenna, momentary, standard lever with steel roller
WGLA	1A01	B	A4J	Limitless™ WGLA, 2.2 dBi straight antenna, momentary, 200 mm aluminum adjustable rod actuator
WGLA	1A02	B	A1A	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, momentary, standard lever with nylon roller
WGLA	1A02	B	A1B	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, momentary, standard lever with steel roller
WGLA	1A02	B	A4J	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, momentary, 200 mm aluminum adjustable rod actuator
WGLA	1A04	B	A1A	Limitless™ WGLA, 5.5 dBi remote magnetic mount/t&s antenna with 5ft of cable, momentary, standard lever with nylon roller
WGLA	1A04	B	A1B	Limitless™ WGLA, 5.5 dBi remote magnetic mount/t&s antenna with 5ft of cable, momentary, standard lever with steel roller
WGLA	1A04	B	A4J	Limitless™ WGLA,, 5.5 dBi remote magnetic mount/t&s antenna with 5ft of cable, momentary, 200 mm aluminum adj.

#### Top actuators

WGLA	1A01	B	B	Limitless™ WGLA, 2.2 dBi straight antenna, top pin plunger
WGLA	1A01	B	C	Limitless™ WGLA, 2.2 dBi straight antenna, top roller plunger
WGLA	1A01	B	D	Limitless™ WGLA, 2.2 dBi straight antenna, top roller lever
WGLA	1A02	B	B	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, top pin plunger
WGLA	1A02	B	C	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, top roller plunger
WGLA	1A02	B	D	Limitless™ WGLA, 2.2 dBi tilt & swivel antenna, top roller lever
WGLA	1A04	B	B	Limitless™ WGLA, 5.5 dBi remote magnetic mount/tilt & swivel antenna with 5 ft of cable, top pin plunger
WGLA	1A04	B	C	Limitless™ WGLA, 5.5 dBi remote magnetic mount/tilt & swivel antenna with 5 ft of cable, top roller plunger
WGLA	1A04	B	D	Limitless™ WGLA, 5.5 dBi remote magnetic mount/tilt & swivel antenna with 5 ft of cable, top roller lever



# Limitless™ Series

## WLS Standard Listings

### Limitless™ WLS Heavy-Duty Limit Switches for use in US/Canada/Mexico

#### Side rotary

WLS	1A00	A	A	Limitless™ heavy-duty limit switch, no antenna, momentary, no lever
WLS	1A01	A	A1A	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, momentary, fixed 1.5 in lever with nylon roller
WLS	1A01	A	A1B	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, momentary, fixed 1.5 in lever with steel roller
WLS	1A01	A	A2A	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, momentary, adjustable 3.5 in lever with nylon roller
WLS	1A01	A	A2B	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, momentary, adjustable 3.5 in lever with steel roller
WLS	1A02	A	A1A	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, momentary, fixed 1.5 in lever with nylon roller
WLS	1A02	A	A1B	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, momentary, fixed 1.5 in lever with steel roller
WLS	1A02	A	A2A	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, momentary, adjustable 3.5 in lever with nylon roller
WLS	1A02	A	A2B	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, momentary, adjustable 3.5 in lever with steel roller

#### Side rotary, maintained head

WLS	1A00	A	N	Limitless™ heavy-duty limit switch, no antenna, maintained, no lever
WLS	1A01	A	N	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, maintained, no lever
WLS	1A02	A	N	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, maintained, no lever

#### Top actuators

WLS	1A00	A	C	Limitless™ heavy-duty limit switch, no antenna, top plunger
WLS	1A00	A	D	Limitless™ heavy-duty limit switch, no antenna, top roller plunger
WLS	1A01	A	C	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, top plunger
WLS	1A01	A	D	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, top roller plunger
WLS	1A02	A	C	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, top plunger
WLS	1A02	A	D	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, top roller plunger

### Limitless™ WLS Heavy-Duty Limit Switches for use in all other approved countries

#### Side rotary

WLS	1A00	B	A	Limitless™ heavy-duty limit switch, no antenna, momentary, no lever
WLS	1A01	B	A1A	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, momentary, fixed 1.5 in lever with nylon roller
WLS	1A01	B	A1B	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, momentary, fixed 1.5 in lever with steel roller
WLS	1A01	B	A2A	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, momentary, adjustable 3.5 in lever with nylon roller
WLS	1A01	B	A2B	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, momentary, adjustable 3.5 in lever with steel roller
WLS	1A02	B	A1A	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, momentary, fixed 1.5 in lever with nylon roller
WLS	1A02	B	A1B	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, momentary, fixed 1.5 in lever with steel roller
WLS	1A02	B	A2A	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, momentary, adjustable 3.5 in lever with nylon roller
WLS	1A02	B	A2B	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, momentary, adjustable 3.5 in lever with steel roller

#### Side rotary, maintained head

WLS	1A00	B	N	Limitless™ heavy-duty limit switch, no antenna, maintained, no lever
WLS	1A01	B	N	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, maintained, no lever
WLS	1A02	B	N	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, maintained, no lever

#### Top actuators

WLS	1A00	B	C	Limitless™ heavy-duty limit switch, no antenna, top plunger
WLS	1A00	B	D	Limitless™ heavy-duty limit switch, no antenna, top roller plunger
WLS	1A01	B	C	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, top plunger
WLS	1A01	B	D	Limitless™ heavy-duty limit switch, 2.2 dBi straight antenna, top roller plunger
WLS	1A02	B	C	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, top plunger
WLS	1A02	B	D	Limitless™ heavy-duty limit switch, 2.2 dBi tilt/swivel antenna, top roller plunger

# Limitless™ Series

## Receiver Listings

### Limitless™ WPMM Standard Listings

Part Number		Description	
WPMM	1A00	A	Limitless™ WPMM monitor, no antenna, US/Canada/Mexico
WPMM	1A02	A	Limitless™ WPMM monitor, 2.2 dBi omni antenna (tilt & swivel design), US/Canada/Mexico
WPMM	1A03	A	Limitless™ WPMM monitor, 3.0 dBi omni antenna with remote adhesive mounting with 9.8 ft cable, US/Canada/Mexico
WPMM	1A04	A	Limitless™ WPMM monitor, 5.5 dBi omni antenna (tilt & swivel design) with remote magnetic mounting with 5 ft cable, US/Canada/Mexico
WPMM	1A05	A	Limitless™ WPMM monitor, 5.5 dBi omni antenna (tilt & swivel design) with remote magnetic mounting with 10 ft cable, US/Canada/Mexico
WPMM	1A00	B	Limitless™ WPMM monitor, no antenna, for use in all other approved countries
WPMM	1A02	B	Limitless™ WPMM monitor, 2.2 dBi omni antenna (tilt & swivel design), for use in all other approved countries
WPMM	1A03	B	Limitless™ WPMM monitor, 3.0 dBi omni antenna with remote adhesive mounting with 9.8 ft cable, for use in all other approved countries
WPMM	1A04	B	Limitless™ WPMM monitor, 5.5 dBi omni antenna (tilt & swivel design) with remote magnetic mounting with 5 ft cable, for use in all other approved countries
WPMM	1A05	B	Limitless™ WPMM monitor, 5.5 dBi omni antenna (tilt & swivel design) with remote magnetic mounting with 10 ft cable, for use in all other approved countries

### Limitless™ WDRR Standard Listings

Part Number		Description		
WDRR	1A00	A	0A	Limitless™ DIN-Rail receiver, no antenna, US/Canada/Mexico
WDRR	1A03	A	0A	Limitless™ DIN-Rail receiver, 3.0 dBi omni antenna with remote adhesive mounting with 9.8 ft cable, US/Canada/Mexico
WDRR	1A05	A	0A	Limitless™ DIN-Rail receiver, 5.5 dBi omni antenna (tilt/swivel design) with remote magnetic mounting/10 ft cable, US/Canada/Mexico
WDRR	1A00	B	0A	Limitless™ DIN-Rail receiver, no antenna, for use in all other approved countries
WDRR	1A03	B	0A	Limitless™ DIN-Rail receiver, 3.0 dBi omni antenna with remote adhesive mounting with 9.8 ft cable, for use in all other approved countries
WDRR	1A05	B	0A	Limitless™ DIN-Rail receiver, 5.5 dBi omni antenna (tilt/swivel design) with remote magnetic mounting/10 ft cable, for use in all other approved countries

# Limitless™ Series

## Standard Antenna Listings

### Limitless™ Wireless Antenna Standard Listings

Part Number	Description
<b>WAN01RSP</b>	Limitless™ Series straight wireless antenna with 2.2 dBi gain, reverse polarity SMA plug, connector mount (RP-SMA)
<b>WAN02RSP</b>	Limitless™ Series tilt/swivel wireless antenna with 2.2 dBi gain, reverse polarity SMA plug, connector mount (RP-SMA)
<b>WAN03RSP</b>	Limitless™ Series flat wireless antenna with 3 dBi gain, reverse polarity SMA plug, adhesive mount with 3,05 m [10 ft] cable
<b>WAN04RSP</b>	Limitless™ Series tilt/swivel wireless antenna with 5.5 dBi gain, reverse polarity SMA plug, connector mount (RP-SMA)
<b>WAN05RSP</b>	Limitless™ Series tilt/swivel wireless antenna with 9 dBi gain, reverse polarity SMA plug, connector mount (RP-SMA)
<b>WAN06RNJ</b>	Limitless™ Series straight wireless antenna with 8 dBi gain, reverse polarity N jack, bracket mount with 0,31 m [1 ft] cable
<b>WAN07RSP</b>	Limitless™ Series straight wireless antenna with 0 dBi gain, reverse polarity SMA plug, connector mount 0 dBi straight w/RP-SMA plug
<b>WAN08RSP</b>	Limitless™ Series right angle wireless antenna with 0 dBi gain, reverse polarity SMA plug, connector mount 0 dBi straight w/RP-SMA plug
<b>WAN09RSP</b>	Limitless™ Series low profile straight antenna with 3.0 dBi gain, reverse polarity SMA plug, mobile magnetic mount with 4,57 m [15 ft] cable
<b>WAN10RSP</b>	Limitless™ Series straight antenna with 5.0 dBi gain, reverse polarity SMA plug, mobile magnetic mount with 4,57 m [15 ft] cable
<b>WAN11RSP</b>	Limitless™ Series low profile dome antenna with 4.0 dBi gain, reverse polarity SMA plug, mobile thru-hole screw mount with 3 m [9.8 ft] cable



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At Honeywell Sensing and Control, we work hard to lead the way. To develop technologies that are ahead of the curve. To deliver solutions that anticipate your needs. And sometimes that innovative mind set allows you to be the market leader. That's why Limitless™ switches are the leading wireless switch brand on the market.

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**Limitless™ Solutions**

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- Wireless heavy-duty switches
- Wireless monitors and receivers

**Potential Applications**

- Construction/Ag machines
- Conveyors
- Crane/boom/jib/skew position
- Door position
- Grain diverters or flaps
- Hose attachment verification
- Lifts
- Material handling machinery
- Moveable machinery
- Presses
- Remote or temporary equipment
- Valve position

**Find Out More**

To learn more about Limitless™ wireless limit switches, contact a Honeywell representative today at **1-800-537-6945** or visit **[www.honeywell.com/limitless](http://www.honeywell.com/limitless)**

Sensing and Control

**Honeywell**

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