

Honeywell's Wireless Solutions are based on a simple idea... applying the power of cutting edge wireless technology with the switching and sensing expertise of Honeywell.



Honeywell's Limitless™ Series of switches and sensors frees applications from the restrictions of wired installations while offering increased reliability and reduced lifetime cost. Compared to traditional wired solutions, Honeywell's Limitless™ platform offers greater flexibility in terms of remote actuation, faster response, flexibility, and a minimized costs over wired options. The simplicity of the system means no wiring, conduits, clips, or connectors to purchase or install, which increase system reliability, easier installation,

and eliminates errors.







Honeywell's Limitless™ Solutions deliver more...

- More distance means more location flexibility
 Limitless[™] devices have up to a 305 m [1000 ft] line-of-sight range without using repeaters, depending upon the antenna type
- More durability means more environment options (rain, sleet, snow, dust, harsh environments, etc.)

Limitless™ Series' offerings include versions with all-metal body and drive train, low-temperature capability, hazardous-area approvals, and/or enclosure with an anti-corrosion epoxy coating

- More savings means minimized retrofit costs, plumbing costs, or electrician costs
 - Limitless™ switches can greatly minimize the costs of wiring, installation, and maintenance for all devices and equipment
- More security means your critical data is safeguarded
 Limitless™ products conform to the international IEEE 802.15.4 standard and feature 16-bit address and 128-bit AES security keys
- More flexibility means you can adapt your footprint at any time as needed

Because you are no longer tethered by wire, you can reconfigure and network multiple switches, easily adding, subtracting, or relocating $Limitless^{TM}$ switches

 More diagnostics means enhanced incident reporting and industry compliance

Provides time stamping and shower triggering notification to aid in OSHA-required checks, certifications and requirements; Limitless $^{\text{\tiny{M}}}$ user-friendly software provides information on battery health, and signal strength for each specific input

- More standard options means easy maintenance with generally available replacement options
 - Limitless™ products use a global, license-free, 802.15.4 radio and commercially available battery for easy replacement anywhere in the world



Limitless™ Switches | WLS Series Heavy-Duty Limit Switch

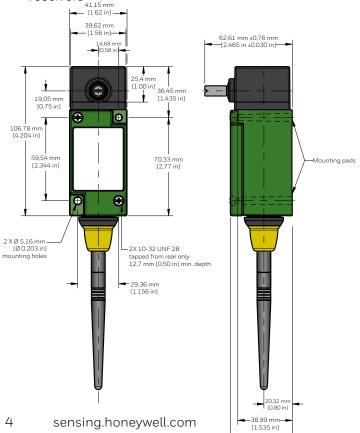


Differentiator: Limitless™ WLS switches feature the EN50041 characteristics, IP67/IP68 sealing, and are well suited for heavy-duty applications where the switch's zinc head and body can stand up to harsh environmental contaminants.

The WLS Series offers a broad range of actuator styles available within the product line. Actuator heads on most models can be rotated in 90° increments to allow for flexibility in applications.

Key Features:

- Operating head rotary tested in excess of 50 million cycles for enhanced reliability
- Diaphragm seal between head and body cavity provides sealing protection
- Twin shaft seals (rotary) protect head and internal components from corrosion and debris
- Sintered bronze bearings provide extended mechanical life
- Works with Limitless™ WMPR, WDRR, and WPMM receivers





WLS Series

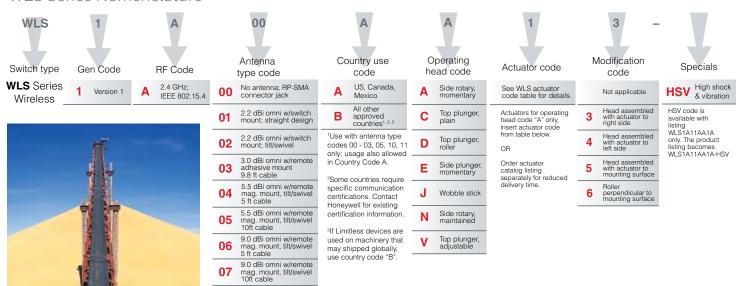
VVL3 Selle	55
Product type	Limitless™ heavy-duty limit switches
Availability	Global, license-free RF bands*
Actuator type	Side rotary, top plunger, side plunger, top roller plunger, top adjustable plunger, wobble stick
Housing material	Zinc head and body are phosphate treated and epoxy finished
Housing type	WLS (EN 50041)
Radio	WPAN 802.15.4; 2.4 GHz point-to-point; specific country communication agency approval required
Antenna type	Direct or remote-mount antenna options; omni-directional
Battery	3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size manufactured by Green Energy p/n ER14335M WBT3 shall be used with -HSV Specials Code
Sealing	IP67, IP68; NEMA 1, 3, 4, 6, 6P, 12, 13
ЕМС	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, 50 g, 6 mS, 3 axis For -HSV specials Code: 100 g, 6 mS MIL-STD-202 Shock Method 213, Test Condition I
Vibration	IEC 60068-2-6; 10 Hz to 58 Hz w/ 0,35 mm peak-to-peak, 58 Hz to 500 Hz, 5 g For-HSV specials Code: 20 g, 10 Hz to 2000 Hz. MIL-STD-202, Vibration Method 204A; Test Condition D
Operating temperature	-40 °C to 85 °C [-40 °F to 185 °F] -30 °C to 85 °C [-22 °F to 185 °F] (wobble sticks)
Agency approvals and standards	FCC 15.247; Industry Canada RSS 210; ETSI, CE mark; ACMA, C-Tick mark; COFETEL; IDA; ANATEL; SRRC; KCC; WPC

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

WLS Series Nomenclature



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

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

Code	Catalog Listii	ng Material	Roller Dia. (in)	Roller Width (in)	Roller Mounting
Fixed	1.5 inch radiu	5			
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
Adjus	table 1.5 in to	3.5 in radius			
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
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

07

08

09

10

11

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

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

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

0 dBi omni w/ switch mount;

straight design

Code	Catalog Listing	Material	Roller Dia. (in)	Roller Width (in)	Roller Mounting	
Yoke -	- 1.5 in radius , co	ontinued				
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	
Rod						
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	
Offset	- 1.5 in radius					
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	55C Nylon 0.75 0.25		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	
Wobb	le stick					
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	
Short	fixed - 1.3 in rad	ius				
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™ Switches | WGLA Series Global Limit Switch



Differentiator: Limitless™ WGLA switches feature EN50041 characteristics, IP67 sealing, and are well suited for applications requiring a basic wireless switch.

The WGLA Series features IP67, NEMA 1, 4, 12, and 13 sealing. It's sealed zinc die-cast and powder

coated enclosure are designed to meet the common dimensions and characteristics defined in EN50041 for easy installation and compatibility with other products in the field.

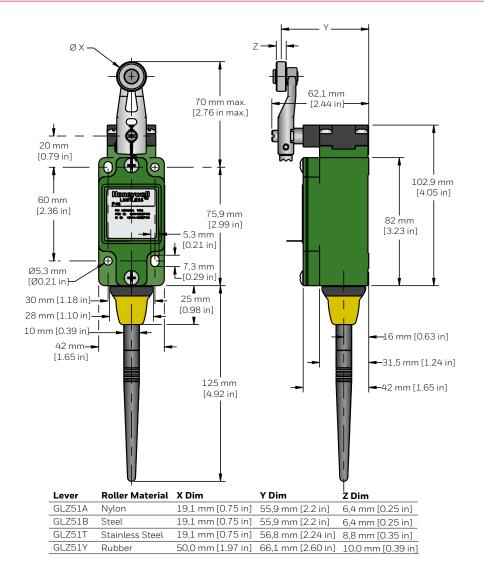
Key Features:

- EN 50041 metal enclosure
- IP67; NEMA 1, 4, 12, 13
- Full complement of operating heads and levers
- Modular construction of components
- Standard replaceable battery with ultra-low power consumption
- Works with Limitless™ WMPR, WDRR, and WPMM receivers



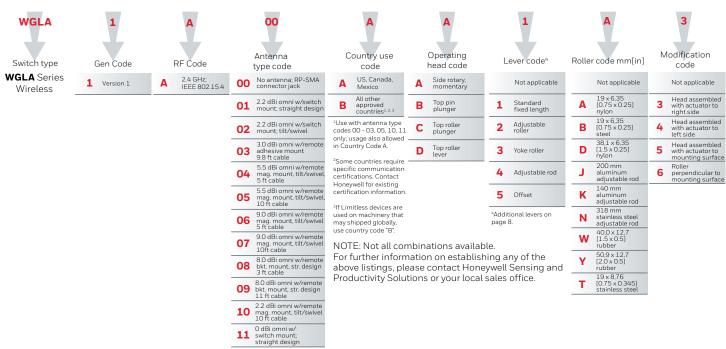
WGLA Series

Limitless™ global limit switches
Global, license-free RF bands*
Side rotary, top plunger, top roller, top roller lever
Zinc head and body are phosphate treated and epoxy finished
EN 50041
WPAN 802.15.4; 2.4 GHz point-to-point; specific country communication agency approval required
Direct or remote-mount antenna options; omni-directional
3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size manufactured by Green Energy p/n ER14335M
IP67; NEMA 1, 4, 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
IEC 60068-2-27; half sine, 10 g, 6 mS, 3 axis
IEC 60068-2-6; 10 Hz to 500 Hz with 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 and side plunger) -25 °C to 85 °C [-13 °F to 185 °F] (all other actuators)
FCC 15.247 Industry Canada RSS 210 ETSI, CE mark ACMA, C-Tick mark COFETEL IDA; ANATEL; SRRC; KCC; WPC





- 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



Limitless™ Switches | WLS Series with Eyelet Pull



Differentiator: Limitless[™] WLS switches are designed with an eyelet-pull operating head for attaching a rope, cable or chain. The switch is sealed to IP67/68 to stand

up to dirty, dusty industrial environments.

Limitless™ 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. Combining this greater flexibility with proven harsh-duty packaging can result in increased efficiencies and improved safety for machines, equipment, OEMs, and operators.

Key Features

- Unique all-metal drive train
- Tested to 750 lb of pull force
- Zinc head and body are phosphate treated and epoxy finished
- Captive head and body screws
- Works with Limitless[™] WMPR, WDRR, and WPMM receivers

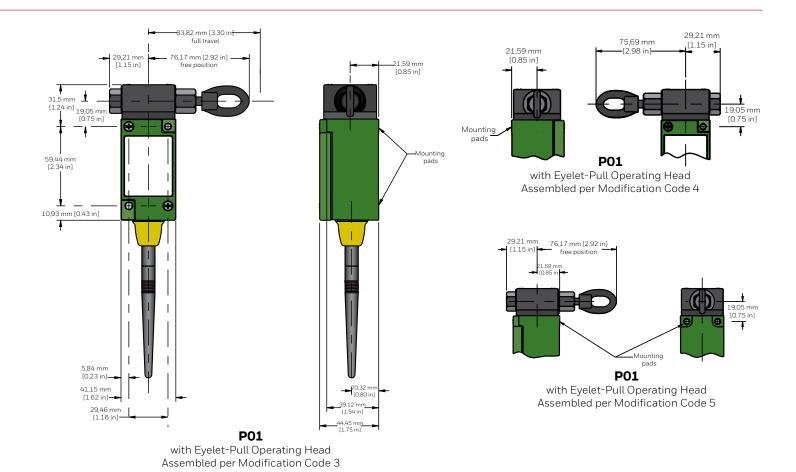


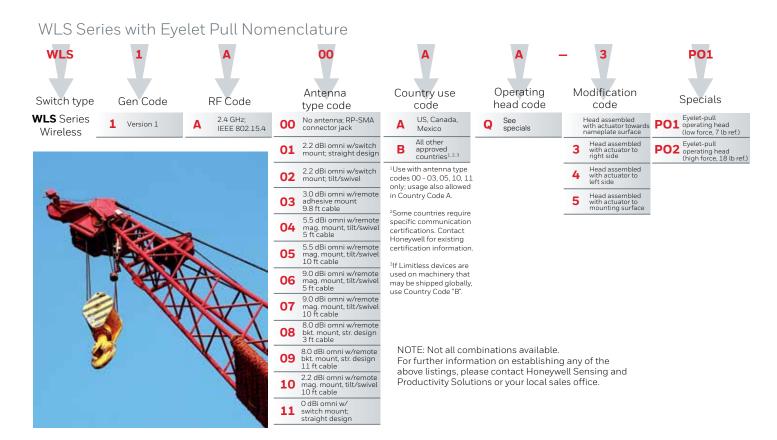
WLS Series with Eyelet Pull

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Product type	Limitless™ Wireless Heavy-Duty Limit Switches		
Operating characteristics	Operating force: 7 lb approx. or 18 lb approx.		
Actuator type	Eyelet-pull operating head (pull eyelet in-line with shaft to prevent damage)		
Housing material	Zinc head and body are phosphate treated and epoxy finished		
Housing type	WPAN 802.15.4; 2.4 GHz		
Radio	RP-SMA jack for direct or remote-mount antenna options; omni-directional		
Antenna type	Direct or remote-mount antenna options; omni-directional		
Battery	3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size (Est. life >1 year) Manufactured by Green Energy, part number ER14335M		
Sealing	IP67/IP68; NEMA 1, 4, 6, 6P, 12, 13		
ЕМС	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 g, 6 mS, 3 axis		
Vibration	IEC 60068-2-6; 10-500Hz w/ 0,35 mm peak-to-peak, 58-500 Hz- 5 g		
Operating temperature	-40 °C to 85 °C [-40 °F to 185 °F]		
Agency approv- als and stan- dards	FCC 15.247; IC RSS 210: Canada; ETSI, CE mark; ACMA, C-TICK; IDA; COFETEL; WPC; ANATEL; SRRC; KCC		

Applications

- Cranes: A2B (anti-two block) switch
- Rope-pull: door activation switch
- Cable pull for production stop applications (e.g., quality, broken tool, maintenance, out of parts); not applicable to human safety-stop applications





Limitless™ Switches | WLS Series Single Switch Adapter



Differentiator: Limitless™ WLS Series Single Switch Adapter is used to convert an electromechanical switch with lowenergy 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 $^{\mathsf{TM}}$ WPMM or WDRR Series of monitors/receivers. The Limitless $^{\mathsf{TM}}$ Single Switch Adapter can be used in a variety of industrial wireless limit switch applications such as reed, contact, pressure, door actuator, and more.

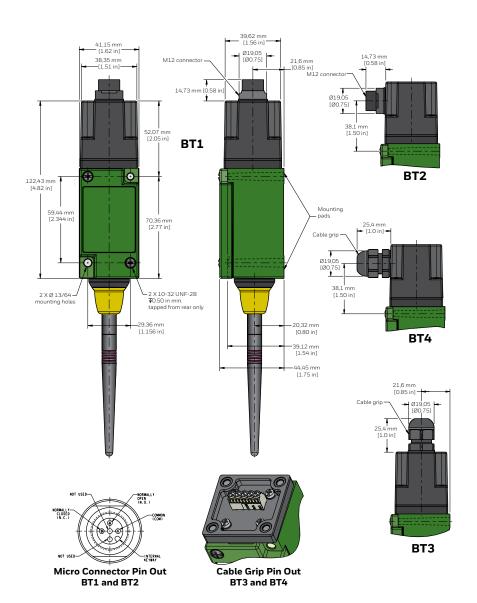
Key Features

- IP67; NEMA 1, 4, 12, 13
- 4-pin M12 micro-change receptacle, cable grip with internal connector wiring options
- Internal battery power
- Body phosphate treated and epoxy finished with a 30
 % glass-filled PBT plastic head
- Works with Limitless™ WMPR, WDRR, and WPMM receivers



WLS Series Single Switch Adapter

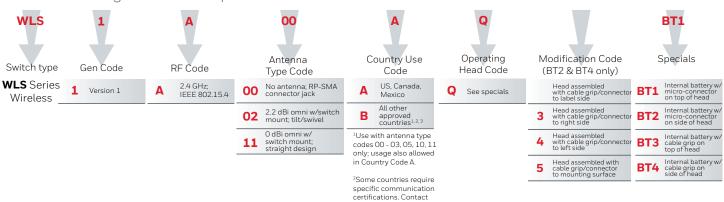
VVL3 Selles	Single Switch Adapter
Product type	Limitless™ Single Switch Adapter
Availability	Global, license-free bands
Housing material	Zinc body is phosphate treated and epoxy filled; 30 % glass-filled PBT plastic head
Radio	WPAN 802.15.4; 2.4 GHz
Antenna type	RP-SMA jack for direct or remote-mount antenna options; omni-directional standard
Battery	3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size (Est. life >1 year) Manufactured by Green Energy, part number ER14335M
Sealing	IP67, NEMA 1, 4, 12, 13
ЕМС	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, 50 g, 6 mS, 3 axis
Vibration	IEC 60068-2-6; 10-500Hz w/ 0,35 mm peak-to-peak, 58-500 Hz- 10 g
Operating temperature	-40 °C to 85 °C [-40 °F to 185 °F]
Electromechani- cal 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 Note: Maximum cable length 3 m [9.84 ft]
Communication Agency Approv- als/Certificates*	FCC 15.247; IC RSS 210; COFETEL; ETSI, CE mark; ACMA, C-TICK; IDA; WPC





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

WLS Series Single Switch Adapter Nomenclature



NOTE: Not all combinations available. For further information on establishing any of the above listings, please contact Honeywell Sensing and Productivity Solutions or your local sales office. ³If Limitless devices are used on machinery that may shipped globally, use country code "B".

Honeywell for existing certification information.

Limitless™ Switches | WLS Series Non-Contact Switch



Differentiator: Limitless™ WLS Series Non-Contact Switch provides for "non-contact" actuation.

Honeywell's Limitless™ Wireless Non-Contact Switch that 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 sidesensing.

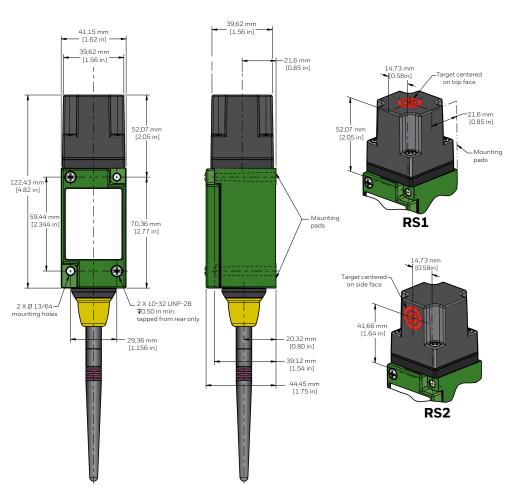
Key Features:

- Allows "non-contact" actuation
- IP67; NEMA 1, 4, 12, 13
- Top and side sensing heads
- Zinc head and body are phosphate treated and epoxy finished
- Works with Limitless™ WMPR, WDRR, and WPMM receivers



WLS Series Non-Contact Switch

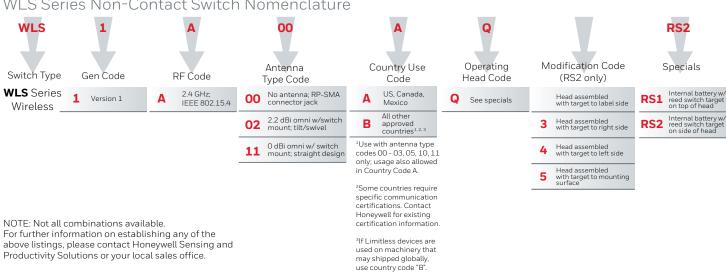
Product type	Limitless™ Wireless Non-Contact Switch
Availability	Global, license-free bands
Operating characteristics	Operating point: 3,81 mm [0.15 in] min.; Release point: 15,24 mm [0.60 in] max. with use of WMG1 magnet (included with WLS Series Non-Contact Switch)
Sensing target	Top and side of head
Housing material	Zinc head and body are phosphate treated and epoxy finished; 30% glass- filled PBT plastic head
Radio	WPAN 802.15.4; 2.4 GHz
Antenna type	RP-SMA jack for direct or remote-mount antenna options; omni-directional standard
Battery	3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size (Est. life >1 year) Manufactured by Green Energy, part number ER14335M
Sealing	IP67; NEMA 1, 4, 12, 13
ЕМС	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 g, 6 mS, 3 axis
Vibration	IEC 60068-2-6; 10-58 Hz w/ 0,35 mm peak-to-peak - 5g
Operating temperature	-40 to 85 °C [-40 °F to 185 °F]
Communication Agency Approv- als/Certificates*	FCC 15.247; IC RSS 210; COFETEL; ETSI, CE mark; ACMA, C-TICK; IDA; WPC





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

WLS Series Non-Contact Switch Nomenclature



Limitless™ Switches | WBX Series Hazardous Area Switch



Differentiator:

Limitless™ WBX hazardous area switches carry cULus, ATEX (CE), IEC Ex, FCC, IC, and ETSI approvals. Their harsh-duty, explosion-proof packaging is intrinsically safe,

and can result in increased efficiencies and improved safety for machines, equipment, and operators.

Designed to be used where other wireless products can not. Hazardous location approvals allow it to be used in a wide range of classified atmospheres, allowing for greater flexibility, making the Limitless™ WBX product application adaptable. Powder-coated aluminum housing enhances durability and resistance to corrosion.

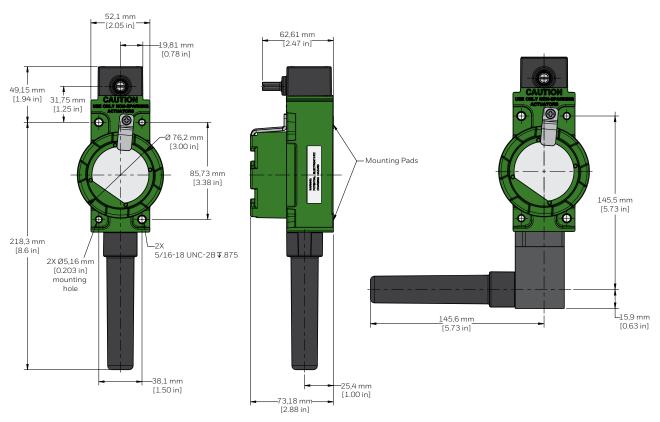
Key Features:

- Hazardous location approvals: cULus, ATEX, IEC Ex
- IP67 (self certified), NEMA 4 sealed metal enclosure
- Intrinsically safe
- Able to reconfigure multiple WBX Series switches
- Works with Limitless™ WMPR, WDRR, and WPMM receivers



WBX Hazardous Area Switch

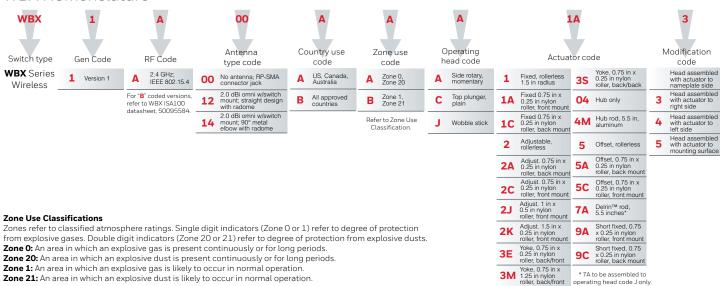
Product type	Limitless™ Hazardous Area Limit Switches				
Actuator type	Side rotary, top plunger	r, wobble stick			
Housing material	Powder-coated die-cas	t aluminum body			
Radio	IEEE 802.15.4, 2.4 GHz	z radio			
Data rate	250 kbps				
Operating frequency	ISM 2.4 GHz				
Module transmit power	Country use code A: 14 dBm max. Country use code B: 8 dBm max.				
Periodic update interval (sec-onds)	Field programmable in 60 second intervals	terval: 1, 5, 10, 30, or			
Sealing	NEMA 1, 3, 4, 13; IP67	(self-certified)			
ЕМС	Latest applicable stand V1.8.1; EN 61326-1 (20 V1.9.2; EN 301 489-17	012); EN 301 489-1,			
Shock	IEC 60068-2-27; half s	ine, 50 g, 6 mS			
Vibration	IEC 60068-2-6: 10 Hz mm peak-to-peak, 58 H				
Operating temp.	-40 °C to 70 °C [-40 °F	to 158 °F]			
Communication agency approvals and standards	FCC 15.247 and 15.209 Industry Canada RSS 210 Gen Issue 8 ETSI, CE mark, ACMA, C-tick mark				
	Standards: UL913 8th edition; CAN/CSA-C22.2 No. 157-92 (R2012) UL 60079-0 edition 6; UL 60079-11 edition 6 CSA C22.2 No. 60079-11 : 14 edition 2; CSA C22.2 No. 60079-0 : 11 edition 2				
cULus standards and certifica- tions	Class I, Div 1, Groups A, B, C, D T4 Class I, Zone 1 AEx ia IIC T4 Ga Class I, Zone 1 Ex ia IIC T4 Ga Class I, Zone 21 AEx ia IIIC T135°C Da Class II, Div 1, Groups E, F, G Class I, Zone 0 AE IIC T4 Ga Class I, Zone 0 Ex Class II, Zone 20 A ia IIIC T135°C Da Tambient -40°C 170°C				
ATEX certifica-	Standards: EN 60079- EN 60079-11 : 2012; E	EN 60079-26 : 2007			
tion	Zone 1 Ex ia IIC T4 Ga Zone 21 Ex ia IIIC T135°C Da	Zone 0 Ex ia IIC T4 Ga Zone 20 Ex ia IIIC T135°C Da			
IEC Ex	Standards: IEC 60079-0 e 11 edition 6.0; IEC 60079				
certification	Zone 1 Ex ia IIC T4 Ga Zone 21 Ex ia IIIC T135°C Da	Zone O Ex ia IIC T4 Ga Zone 20 Ex ia IIIC T135°C Da			



Operating Head Code "A" **Straight Antenna**

Operating Head Code "A" 90° Antenna

WBX Nomenclature



Applications

- Agriculture machines
- Grain diverters or flaps
- Material handling
- Pipeline pigs
- Remote or temporary equipment

Zone 1: An area in which an explosive gas is likely to occur in normal operation.

Zone 21: An area in which an explosive dust is likely to occur in normal operation.

Valve position

- Door position
- Hose attachment verification
- Paint robotics
- Pump stroke count
- Safety shower alarming

* 7A to be assembled to

Limitless™ Sensors | WPS Wireless Pressure Sensor



Differentiator: Limitless™ WPS Series is designed to replace applications that are currently wired, or that are used in 1) new applications where wired devices

are not economical/feasible (i.e., wireless transmitters); 2) where wiring and connections cause reliability issues; or 3) where increased functionality can be realized by eliminating wires

In process, oil & gas and factory floor environments, wireless pressure sensors are already commonly used. These sensors are accurate, reliable and offer increased levels of customization (battery life, firmware/software); however, these features have created products that are costly (\$1200+) for many applications, and many features are not typically needed. The WPS Series provide a lower cost option to expensive wireless alternatives while offering the advantages of wireless over the next best alternative (a wired solution). The WPS Series provide wireless benefits without the expensive features the customer's application often does not need.

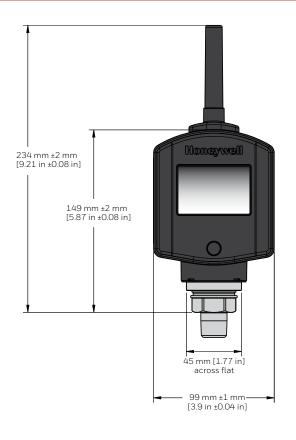
Key Features:

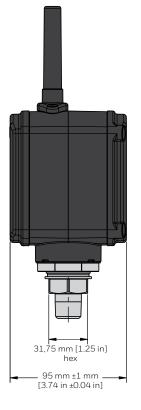
- 0 to 50 psi, 200 psi, 500 psi, 1000 psi, 1500 psi, 5000 psi, or 10,000 psi
- WPAN 802.15.4, 2.4 GHz, P2P
- Measures gage and absolute pressures
- Global availability due to a variety of inputs with Ethernet/IP™ PLC connections
- Total Error Band ±2.0 %
- IP67 sealed plastic enclosure with 316L Port and Hastelloy® C-276 diaphragm
- Direct, remote or built-in antenna options
- Sensor's body can be rotated/swiveled 350° about the port axis
- Works with Limitless™ WMPR multi-protocol receiver



WPS Wireless Pressure Sensor

VVF 3 VVII ete:	SS FIESSUIE SEIISUI		
Product type	Wireless Pressure Sensor		
Availability	Global, license-free bands		
Process connections	1/4 in NPT female connection is integral to 1/2 in NPT male or 3/4 in NPT male		
Measurement accuracy	Better than ±2.0 % Total Error Band (TEB), full scale, full temperature range. Example 100 psi is ±2 psi		
Housing and wetted material	Polycarbonate plastic enclosure, 316L stainless steel port, Hastelloy® C-276 diaphragm		
Output	Digital output via wireless, end-user configurable as psi, bar, kPa, and Pa local LCD variant also available		
Antenna type	Direct mount antenna with radome or remote-mount antennas available		
Total error band (TEB)	±2.0 %FSS		
Module transmit power	Country code A: 16 dBm max.; Country code B: 8 dBm max.		
Sensor output resolution	0.04 %FS		
Sealing	IP65, IP67		
ЕМС	Latest applicable standards: EN 300 328, V1.8.1; EN 61326-1 (2012); EN 301 489-1, V1.8.1; EN 301 489-17, V2.2.1		
Shock	40 g per IEC 60068-2-27		
Vibration	5 Hz to 200 Hz, 4 g, Sinusoidal as per IEC 60068-2-6		
Operating and storage temp. range	-40 °C to 70 °C [-40 °F to 158 °F]		
Agency approvals and standards	16 dBm: FCC 15.247 and 15.209, Industry Canada RSS 210 Issue 8, ACMA (C-Tick mark) 8 dBm: ETSI EN 300 328 V1.8.1 (CE mark)		







- Process monitoring of important pressures
- Gauge placement
- Liquid level sensing (corrosive or non-corrosive)
- Leak detection (detection of pressure drop)
- Process pump failure monitoring
- Well head monitoring
- Irrigation water pressure monitoring
- Equipment health monitoring
- Tank level monitoring (water or corrosive liquids)

WPS Nomenclature

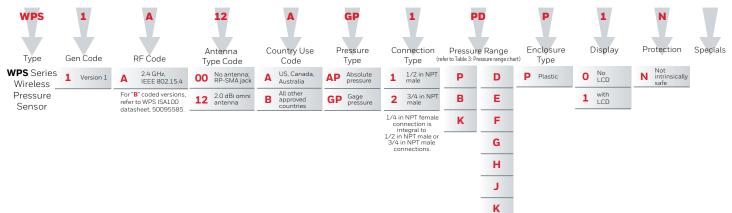


Table 3. Pressure Range Conversion Chart

Unit Code	Description	Pressure Range						
Unit Code	Description	D	E	F	G	Н	J	K
Р	psi	0 to 50	0 to 200	0 to 500	0 to 1000	0 to 1500	0 to 5000	0 to 10000
В	Bar	0 to 3.45	0 to 13.8	0 to 34.5	0 to 68.9	0 to 103.4	0 to 344.7	0 to 689.5
K	Кра	0 to 344.7	0 to 1379	0 to 3447.4	0 to 6894.7	0 to 10342	0 to 34473	0 to 68947



Differentiator: Intrinsically safe, the Limitless™ WPS Series is designed to replace applications that are currently wired, or that are used in 1) new applications

where wired devices are not economical/feasible (i.e., wireless transmitters); 2) where wiring and connections cause reliability issues; or 3) where increased functionality can be realized by eliminating wires

In process, oil & gas and factory floor environments, wireless pressure sensors are already commonly used. These sensors are accurate, reliable and offer increased levels of customization (battery life, firmware/software); however, these features have created products that are costly (\$1200+) for many applications, and many features are not typically needed. The WPS Series provide a lower cost option to expensive wireless alternatives while offering the advantages of wireless over the next best alternative (a wired solution). The WPS Series provide wireless benefits without the expensive features the customer's application often does not need.

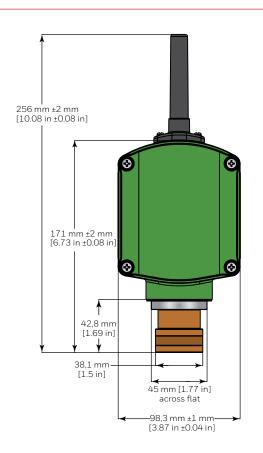
Key Features:

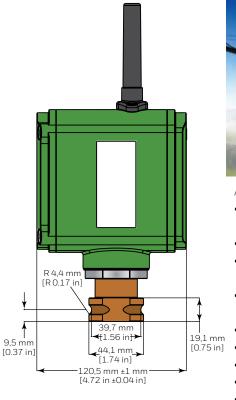
- Measures gage or absolute pressure ranging from 0 psi to 500 psi through 0 psi to 15,000 psi
- WPAN 802.15.4, 2.4 GHz, P2P
- Intrinsically safe: cULus, ATEX, and IEC Ex approvals
- Configurable platform: Designed for global availability
- Total Error Band ±2.0 %
- IP67 sealed aluminum alloy metal enclosure/ Hastelloy® C276 or 15-5PH SS or Crucible A-286 diaphragm
- Direct, remote or built-in antenna options
- Sensor's body can be rotated/swiveled 350° about the port axis
- Works with Limitless™ WMPR multi-protocol receiver



IS-WPS Wireless Pressure Sensor

Product type	Wireless Pressure Sensor, Intrinsically Safe		
Availability	Global, license-free bands		
Process connections	1/2 in NPT male and 1/4 in NPT female 3/4 in NPT male and 1/4 in NPT female 1/4 in NPT female, 9/16-18 UNF female		
Measurement accuracy	Better than ±2.0 % Total Error Band (TEB), full scale, full temperature range. Example 100 psi is ±2 psi		
Housing and wetted material	Aluminum alloy metal enclosure/ Hastelloy® C276 or 15-5PH SS or Crucible A-286 diaphragm		
Output	Digital output via wireless, end user configurable as psi, bar, kPa and Pa, local LCD variant also available		
Antenna type	Direct mount antenna with radome or remote-mount antennas available		
Total error band	±2 %FSS for > 50 psi		
Module transmit power	Country code A: 16 dBm max.; Country code B: 8 dBm max.		
Sensor output	0.04 %FS		
resolution	0.04 %FS		
	IP65, IP67 (self certified by Honeywell)		
resolution			
resolution Sealing	IP65, IP67 (self certified by Honeywell) Applicable standards: EN 300 328, V1.8.1; EN 61326-1 (2006); EN 301		
resolution Sealing EMC	IP65, IP67 (self certified by Honeywell) Applicable standards: EN 300 328, V1.8.1; EN 61326-1 (2006); EN 301 489-1, EN301 489-17, V2.1.1		
resolution Sealing EMC Shock	IP65, IP67 (self certified by Honeywell) Applicable standards: EN 300 328, V1.8.1; EN 61326-1 (2006); EN 301 489-1, EN301 489-17, V2.1.1 40 g per IEC 60068-2-27 5 Hz to 200 Hz, 4 g, Sinusoidal per		
resolution Sealing EMC Shock Vibration	IP65, IP67 (self certified by Honeywell) Applicable standards: EN 300 328, V1.8.1; EN 61326-1 (2006); EN 301 489-1, EN301 489-17, V2.1.1 40 g per IEC 60068-2-27 5 Hz to 200 Hz, 4 g, Sinusoidal per IEC 60068-2-6		
resolution Sealing EMC Shock Vibration Operating temp.	IP65, IP67 (self certified by Honeywell) Applicable standards: EN 300 328, V1.8.1; EN 61326-1 (2006); EN 301 489-1, EN301 489-17, V2.1.1 40 g per IEC 60068-2-27 5 Hz to 200 Hz, 4 g, Sinusoidal per IEC 60068-2-6 -40 °C to 70 °C [-40 °F to 158 °F] Class I, Div I, Groups A, B, C, D T4 Class I, Zone 1 AEx ia IIC T4 Ga Class I, Zone 0 AEx ia IIC T4 Ga Class I, Zone 0 Ex ia IIC T4 Ga		
resolution Sealing EMC Shock Vibration Operating temp.	IP65, IP67 (self certified by Honeywell) Applicable standards: EN 300 328, V1.8.1; EN 61326-1 (2006); EN 301 489-1, EN 301 489-17, V2.1.1 40 g per IEC 60068-2-27 5 Hz to 200 Hz, 4 g, Sinusoidal per IEC 60068-2-6 -40 °C to 70 °C [-40 °F to 158 °F] Class I, Div I, Groups A, B, C, D T4 Class I, Zone 1 AEx ia IIC T4 Ga Class I, Zone 0 AEx ia IIC T4 Ga Class I, Zone 0 Ex ia IIC T4 Ga Tambient -40° C to +70 C° Zone 1 Ex ia IIC T4 Ga; Zone 0 Ex ia IIC		







- Process monitoring of important pressures
- Gauge replacement
- Liquid level sensing (corrosive or non-corrosive)
- Leak detection (detection of pressure drop)
- Process pump failure monitoring
- Well head monitoring
- Irrigation water pressure monitoring
- Equipment health monitoring
- Tank level monitoring (water or corrosive liquids)



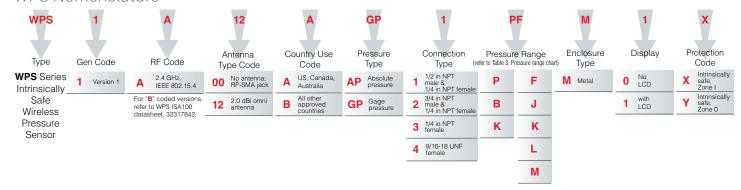


Table 4. Pressure Range Conversion Chart

Unit Code	Description	Pressure Range						
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K	Кра	0 to 344.7	0 to 1379	0 to 3447.4	0 to 6894.7	0 to 10342	0 to 34473	0 to 68947

Limitless™ Switches | WOI Series Operator Interface/Pushbutton



Differentiator: Limitless™ WOI Series is a human interface device that provides operator indication with a pushbutton.

With both momentary and maintained contacts, the Limitless™ Wireless Operator Interface (WOI) can be used by an operator to provide indication via a pushbutton or another user-chosen operator type (i.e. 22 mm rotary switch, 22 mm key switch, etc.). The WOI Series adds a human interface device to the product-driven interfaces of Limitless™ switches and receivers – wireless control from both person and position.

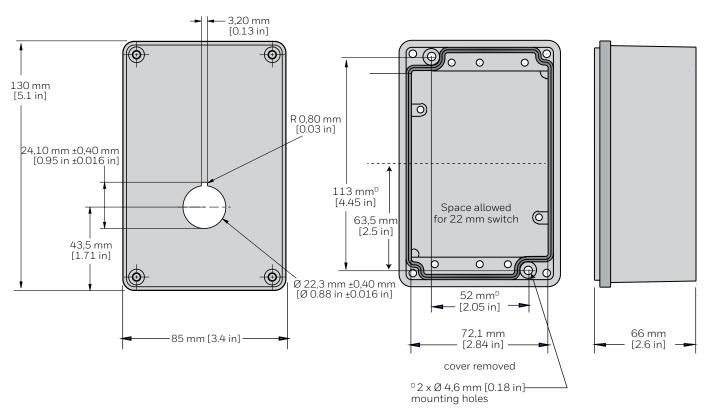
Key Features:

- Aluminum enclosure
- IP65 sealing
- 22 mm flush, 29 mm mushroom, & 40 mm mushroom (push-pull) round pushbutton operators available
- User chosen/installed operator type is allowable
- Momentary and maintained contact options
- Design for ease of installation
- Works with Limitless[™] WMPR, WDRR, and WPMM receivers

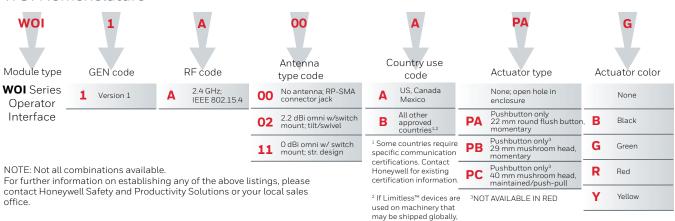


WOI Series Operator Interface

Product type	Limitless™ Operator Interface Switches						
Availability	Global, license-free bands						
Operating force	Momentary pushbutton: 6,2 N \pm 2 N [1.4 lb \pm 0.45 lb] Maintained pushbutton: 7,0 N \pm 2 N [1.6 lb \pm 0.45 lb]						
Actuator type	Pushbutton operators • 22 mm round flush momentary • 29 mm mushroom head momentary • 40 mm mushroom head maintained (push-pull); No operator option available for use with user supplied 22 mm operator and contact blocks						
Actuator/contact blocks (if user supplied)	22 mm switch design (i.e. 22 mm rotary switch, 22 mm key switch, etc.) /gold contact, normally open and normally closed contact blocks capable of reliably controlling a 30 mA @ 3.6 Vdc electrical load						
Actuator colors	Black, Green, Red*, Yellow * not available for the 29 mm mush- room, & 40 mm mushroom (push-pull) pushbuttons						
Housing material	Powder-coated aluminum						
Radio	WPAN 802.15.4; 2.4 GHz						
Antenna type	Direct or remote-mount antenna options; Omni directional						
Sealing	IP65						
ЕМС	Latest applicable stnds: 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, 50 g, 6 mS, 3 axis						
Vibration	IEC 60068-2-6; 10-500Hz w/ 0,35 mm peak-to-peak, 58-500 Hz- 10 g						
Operating temp.	-25 °C to 50 °C [-13 °F to 122 °F]						
Agency approv- als and stan- dards	FCC 15.247; Industry Canada RSS 210 ETSI, CE mark; ACMA, C-Tick mark						



WOI Nomenclature





Applications

Industrial

- CNC action
- Conveyors
- Door/Gate action

use Country Code "B".

- Lifts
- Material handling
- Motor drives
- Presses
- Pumps
- Quality control buttons

- Specialty machines
- Stop/Start machinery
- Stop/Start production
- Valve action

Transportation

- Agricultural equipment
- Movable machinery

Limitless™ Receivers and Monitors | WPMM Series Monitor



Differentiator: Limitless[™] WPMM Monitors deliver output based on a signal from a Limitless[™] device.

Limitless™ WPMM Series wireless panel-mount monitors provide a visual, audio, and 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.

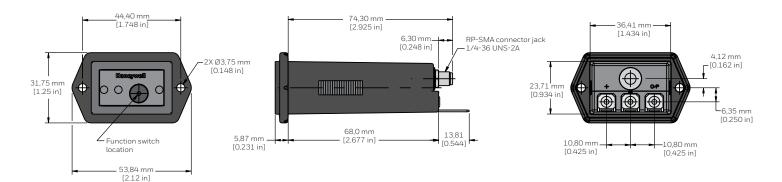
Key Features:

- 10 Vdc to 30 Vdc supply with one NPN output 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
- 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



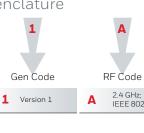
WPMM Series Monitor

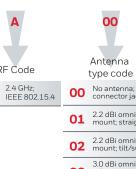
Product type	Limitless™ wireless panel mount monitor
Series name	WPMM Series
Availability	Global, license-free RF bands*
Housing material	LCP, VECTRA E130i
Housing type	Snap-in panel or screw-mount design
Radio type	WPAN 802.15.4, 2.4 GHz point to point
Antenna type	RP-SMA jack for direct mount or remote antenna options; omni-directional standard
Indication	Three LEDs: green, yellow, red Power indication: green Output indication: red Config./diagnostic: green, yellow, red Buzzer w/ silent option
Supply voltage	10 Vdc to 30 Vdc
Supply current	750 mA max.
Output types	NPN, PNP, solid-state relay
Load current	5 mA to 200 mA
Leakage current	50 uA max.
Voltage drop	1.75 Vdc max. @ max. load @ 25 °C [77 °F]
Terminal(s)	3
Termination	Quick connect, 0.25 in male blade
Sealing	IP67
Reverse polarity protection	Yes
ЕМС	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 g, 6 mS, 3 axis
Vibration	IEC 60068-2-6; 10 Hz to 500 Hz w/ 0,35 mm peak-to-peak, 58 Hz to 500 Hz- 5 g
Operating temp.	-40 °C to 85 °C [-40 °F to 185 °F]
Agency approv- als and stan- dards	FCC 15.247; IC RSS 210, ETSI, CE mark; ACMA, C-TICK; COFETEL; IDA; ANATEL; WPC; SRRC; KCC
Size	$31,87 \text{ mm H} \times 44,40 \text{ mm W} \times 74,30 \text{ mm D}$ [1.25 in H x 1.748 in W x 2.925 in D] ref.



WPMM Nomenclature







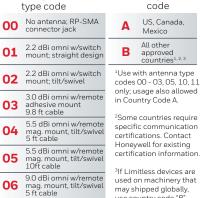
06

07

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09

10



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

8.0 dBi omni w/remote bkt. mount, str. design

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

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

3 ft cable

used on machinery that may shipped globally, use country code "B"

Country use



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

Limitless™ Receivers and Monitors | WDRR Series Receiver



Differentiator: WDRR receiver communicates the Limitless™ digital input status (i.e. switch open or closed) to a PLC (programmable logic controller) or any

host controller capable of NPN/PNP-type inputs.

The WDRR Series is a reliable din-rail or panel-mountable receiver that is designed to receive a wireless signal from a Limitless™ digital input. Accommodating up to 14 Limitless™ digital inputs, the WDRR Series is for applications requiring multiple wireless inputs. These inputs communicate to a PLC or host controller via NPN or PNP-type output, along with RF communication and battery diagnostics. Blue LEDs give visual confirmation that the system is wirelessly connected.

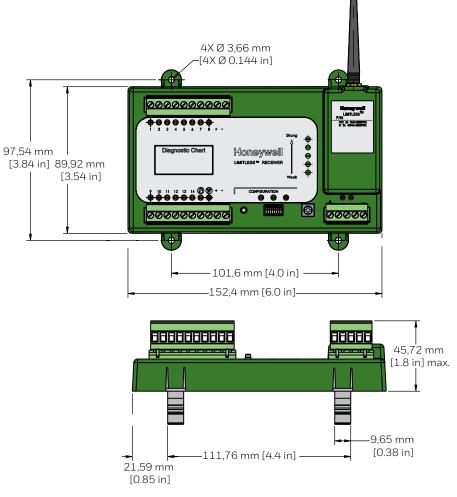
Key Features:

- 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



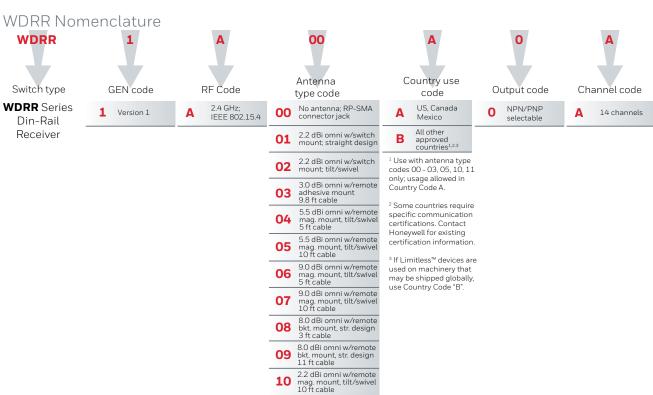
WDRR Series Receiver

	3 1 (0001 / 01
Product type	Limitless™ wireless din-rail receiver (PLC interface)
Series name	WDRR Series
Availability	Global, license-free RF bands*
Housing material	Flame retardant ABS
Housing type	DIN Rail or screw-mount design
Radio type	WPAN 802.15.4, 2.4 GHz point-to-point
Antenna type	RP-SMA jack for direct mount or remote antenna options; omni-directional standard
Indication	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
Supply voltage	10 Vdc to 28 Vdc
Supply current	500 mA max.
Output type	Selectable: NPN-type current sinking open collector or NPN-type "totem pole"; PNP-type current sourcing open collector or PNP-type "totem pole"
Load current	10 mA max.
Leakage current	100 uA max.
Voltage drop	$2.0\mathrm{Vdc}$ max. @ max. load @ $25\mathrm{^{\circ}C}$ [77 $\mathrm{^{\circ}F}$]
Terminal(s)	18 usable
Termination	Cage-clamp screw terminal blocks
Sealing	IP20
ЕМС	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 g, 6 mS, 3 axis
Vibration	IEC 60068-2-6; 10-500Hz w/ 0,35 mm peak-to-peak, 58-500 Hz- 5 g
Operating temp.	-20 °C to 70 °C [-4 °F to 158 °F]
Agency approv- als and stan- dards	FCC 15.247; IC RSS 210, ETSI, CE mark; ACMA, C-TICK; COFETEL; IDA; ANATEL; WPC; SRRC; KCC
Size	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.





- 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



10



Differentiator: WMPR multi-protocol receiver is designed to receive a wireless signal from a Limitless™ digital

or analog input or node. The WMPR Series receiver then communicates the Limitless $^{\text{\tiny{M}}}$ digital or analog node status (i.e., switch open or closed, pressure value) to an EtherNet/IP $^{\text{\tiny{M}}}$ compliant Master device (i.e., programmable logic controller).

The WMPR Series is a reliable din-rail or panel-mountable receiver. Accommodating up to 14 Limitless™ digital or analog nodes, the WMPR Series is designed for applications requiring multiple wireless inputs. The WMPR Series receiver is menu driven through the use of function buttons and an easy-to-read LCD. The menu allows the user to see the status of the nodes, configure nodes, and update receiver functionality.

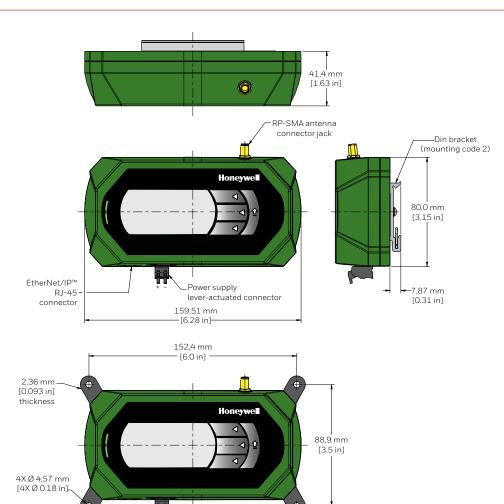
Key Features:

- LCD's function buttons on the front panel allow the user to easily navigate through the menu to obtain status of the switch actuation state, sensor value, battery condition, RF signal loss, node pairing, node update rate, fault indications, etc.
- Output is ODVA certified EtherNet/IP Conformance Tested™
- Indication for up to 14 Limitless[™] digital or analog nodes
- DIN Rail or screw mount
- Direct or remote-mount antenna



WMPR Series Multi-Protocol Receiver

Limitless™ wireless multi-protocol receiver						
Global						
Flame-retardant ABS (Acrylonitrile Butadiene Styrene)						
35 mm din-rail bracket or through-hole mounting plate design, 3,5 mm [#8] machine screws						
WPAN 802.15.4, 2.4 GHz						
RP-SMA jack for direct mount or remote antenna options; omni-directional standard						
LCD display with function button navigation of a menu program Configuration LEDs: green, blue, red						
10 Vdc to 30 Vdc						
500 mA max.						
EtherNet/IP™ (ODVA - EtherNet/IP Conformance Tested™)						
RJ-45 connector						
Lever actuating connector						
IP20						
Latest applicable standards: EN 300 328, V1.8.1; EN 61326-1 (2013); EN 301 489-1, V1.9.2; EN 301 489-17, V2.2.1						
IEC 60068-2-27; half sine, 10 g, 6 mS, 3 axis						
IEC 60068-2-6; 10 Hz to 58 Hz with 0,75 mm peak-to-peak, 58-500 Hz @ 5g						
-20 °C to 70 °C [-4 °F to 158 °F]						
FCC 15.247: United States of America IC RSS 210: Canada ETSI, CE mark: European						
81,3 mm H x 160 mm W x 43,2 mm D [3.2 in H x 6.3 in W x 1.7 in D] ref.						

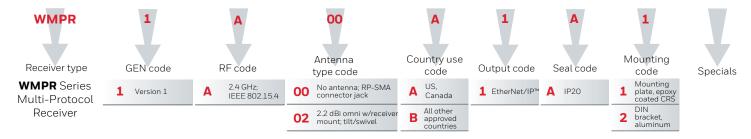




- Valve position
- Lifts
- Material handling
- Presses
- Conveyors
- Remote or temporary equipment
- Safety shower/eye-wash stations
- Grain diverters or gates
- Mold injection machines
- Door or gate position
- Hose attachment verification
- Specialty machines

WMPR Nomenclature

Mounting plate (mounting code 1)



Limitless™ Accessories | Antennas

Antenna Accessories

	Part number	Replacement An- antenna mount tenna design (max.) Con- nector/ mounting Dimensions		Dimensions	Antenna material	Cable material/type	Mount material		
	WAN01RSP	_	straight	2.2 dBi	RP-SMA plug/direct mount	plug/direct 0 9,91 mm x 112,78 mm L 0 v stable ABS - lastic - lastic -		-	_
/	WAN02RSP	-	tilt/swivel	2.2 dBi	RP-SMA plug/direct mount	Ø 9,91 mm x 112,78 mm L [Ø 0.39 in x 4.44 in L]	UV stable ABS plastic	-	-
	WAN03RSP	-	flat	3.0 dBi	RP-SMA plug/adhesive mount	115 mm L x 22,1 mm W x 4,57 mm D [4.53 in L x 0.87 in W x 0.18 in D] 3 m [9.8 ft] cable	UV stable ABS	UV stable PVC/ RG- 174 coax	-
	WAN04RSP	WAMM100RSP-005 base with 1,52 m [5 ft] of cable	tilt/swivel	5.5 dBi	RP-SMA plug/direct mount	Ø 12,7 mm x 208,28 mm L [Ø 0.50 in x 8.20 in L]	UV stable molded polyure- thane	UV stable PVC/ RG- 174 coax	UV stable black ABS
	WAN04RSP	WAMM100RSP-010 base with 3,05 m [10 ft] of cable	tilt/swivel	5.5 dBi	RP-SMA plug/direct mount	Ø 12,7 mm x 208,28 mm L [Ø 0.50 in x 8.20 in L]	UV stable molded polyure- thane	UV stable PVC/ RG- 174 coax	UV stable black ABS
	WAN05RSP	WAMM100RSP-005 base with 1,52 m [5 ft] of cable	tilt/swivel	9.0 dBi	RP-SMA plug/direct mount	Ø 12,7 mm x 384,05 mm L [Ø 0.50 in x 15.12 in L]	UV stable molded polyure- thane	UV stable PVC/ RG- 174 coax	UV stable black ABS
	WAN05RSP	WAMM100RSP-010 base with 3,05 m [10 ft] of cable	tilt/swivel	9.0 dBi	RP-SMA plug/direct mount	Ø 12,7 mm x 384,05 mm L [Ø 0.50 in x 15.12 in L]	UV stable molded polyure- thane	UV stable PVC/ RG- 174 coax	UV stable black ABS
1	WANO6RNJ	WCA200RN- PRSP-002 coax cable assembly 0,682 m [2 ft]	straight	8.0 dBi	RP-N jack/ bracket	Ø 33,5 mm x 427,9 mm L [Ø 1.32 in x 16.85 in L]	UV stable fiberglass	UV stable PVC/RG- 316 coax, UV stable Polyethylene/200 Series coax	300 series SST aluminum alloy
	WANO6RNJ	WCA200RN- PRSP-010 coax cable assembly 3,05 m [10 ft]	straight	8.0 dBi	RP-N jack/ bracket	Ø 33,5 mm x 427,9 mm L [Ø 1.32 in x 16.85 in L]	UV stable fiberglass	UV stable PVC/RG- 316 coax, UV stable Polyethylene/200 Series coax	300 series SST aluminum alloy
	WAN07RSP	-	straight	0 dBi	RP-SMA plug/direct mount	Ø 8,0 mm x 30 mm L [Ø 0.32 in x 1.18 in L]	UV stable	-	-
	WAN08RSP	-	90°	0 dBi	RP-SMA plug/direct mount	Ø 8,0 mm x 29 mm L [Ø 0.34 in x 1.14 in L]	UV stable	-	_
9	WAN09RSP	-	low profile mobile	3.0 dBi	RP-SMA plug/mag- netic	Ø 76,2 mm x 115 mm L [Ø 3.0 in x 4.54 in L] 3,05 m [10 ft] cable	UV stable ABS plastic	UV stable black PVC	Nickel-plated steel
	WAN10RSP	-	straight	5.0 dBi	RP-SMA plug/mag- netic	Ø 76,2 mm x 230,1 mm L [Ø 3.0 in x 9.06 in L] 4,57 m [15 ft] cable	Nickel-plated steel	UV stable black PVC	Nickel-plated steel
	WAN11RSP	-	low profile mobile	4.0 dBi	RP-SMA plug/thru- hole screw	Ø 39 mm x 42,4 mm L [Ø 1.54 in x 1.67 in L]	UV stable black PVC	UV stable black PVC	Nickel-plated steel
	WAN12RSP	-	straight	2.0 dBi	RP-SMA plug/direct mount	Ø 10 mm x 79,5 mm L [Ø 0.39 in. x 3.13 in. L]	UV stable ABS plastic	-	-

Limitless™ Compatibility & Approvals Matrices

Limitless™ Solution Compatibility Matrix

(which Limitless™ switches and sensors work with which receivers)

Available output	Series	WGLA	WLS	WLS-EP	WLS-SSA	WLS-NC	WBX	WPS	woı
NPN, PNP, solid state relay	WPMM	√	✓	✓	✓	√	√		√
NPN, PNP selectable	WDRR	√	✓	√	✓	√	√		√
Ethernet/IP™	WMPR	✓	√	√	✓	√	✓	√	✓

Limitless™ Approvals Matrix

(which Limitless^M switches and sensors are approved to work in which country)

Country	Approval	WGLA	WLS	WLS- EP	WLS- SSA	WLS- NC	WBX	WPS	woı	WPMM	WDRR	WMPR
United States	FCC	✓	\checkmark	✓	✓	✓	✓	✓	√	✓	✓	√
Canada	IC	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	√
Europe	ETSI	✓	✓	✓	✓	✓	✓		√	√	✓	√
Australia/New Z.	АСМА	✓	✓	✓	✓	✓	✓	✓	√	✓	✓	
Mexico	COFETEL	✓	✓	√	√	√				✓	√	
Singapore	IDA	✓	✓	√	√	√				✓	√	
Brazil	ANATEL	✓	✓	√						✓	√	
China	SRRC	✓	\checkmark	√						\checkmark	√	
South Korea	ксс	✓	\checkmark	√						√	√	
India	WPC	✓	\checkmark		√	√				√	√	
Intrinsically	y safe						√					

There's an advantage for taking the bold step. For seeing the possibilities. And seizing the opportunity.

At Honeywell, 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 witches are the leading wireless switch brand on the market.

And you can rest assured, Limitless[™] solutions are the right product at the right time to help you maximize efficiency and minimize cost. Because it's a Honeywell product, backed by world-class service and support.

Part Innovation. Part Engineering. Total Solutions.

Limitless™ Solutions

- Wireless global limit switches
- Wireless heavy-duty switches
- Wireless hazardous location switches
- Wireless monitors and receivers
- Wireless operator interface
- Wireless pressure sensors

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
- Safety showers
- Valve position

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Phone and Fax:

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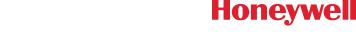
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To learn more about Limitless™ wireless solutions, contact a Honeywell representative today at **1-800-537-6945** or visit

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9680 Old Bailes Road Fort Mill, SC 29707 honeywell.com



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