Honeywell

Wireless **Panel-Mount Monitor** Limitless[™] Monitor



DESCRIPTION

The new Limitless[™] product line combines the best of MICRO SWITCH™ limit switches with the latest commercial off-theshelf wireless technology. The Wireless Panel Mount Monitor will provide a visual, audio and NPN output based on a

FEATURES

Wireless electrical design

- Radio (license-free and global): WPAN 802.15.4, 2.4 GHz, point-to-point
- FCC 15, IC, ACMA and ETSI approvals
- EMI immunity .
- Up to 304 m [1000 ft] line-of-sight communication range when used with a Limitless[™] switch (sold separately)
- Reliable, flexible, and secure wireless transmission
- 10 Vdc to 30 Vdc supply with NPN Normally Open output
- **Diagnostics** options
- Can potentially monitor up to 16 wireless switches
- Field pairing function allows for rapid configuration (add or subtract switches)

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
- Direct or remote mount antenna

signal received from a Limitless[™] switch. The Wireless Panel Mount Monitor will provide immediate indication of an actuator position change of the wireless limit switch.

BENEFITS

- Ability to reconfigure and network multiple switches, or point-to-point with personalized addresses which allows for adding, subtracting or relocating Limitless™ switches easily
- Reduced installation/maintenance costs with no wiring to Limitless[™] switches, conduit, strain relief, clips, connectors, connection boxes, etc.
- Snap-in panel or screw mount design allows flexibility in mounting locations
- LEDs/buzzer indicate Limitless™ switch actuation, low battery, RF signal loss, pairing function as well as diagnostic functions
- Communication security per the IEEE 802.15.4 standard (16-bit PAN (network) ID, 16-bit address and 128-bit security key)

POTENTIAL APPLICATIONS

- Construction/Ag machines Valve position
- Crane boom/jib/skew
- Conveyors ٠
- position
- Remote or temporary equipment Movable machinery
 - Grain diverters or flaps
- Lifts
 - Door position
 - Hose attachment verification
 - Specialty machines
 - Material
- Presses
- handling

| Description | Parameter | |
|--------------------------------|--|--|
| Product type | Limitless [™] Panel Mount Monitor Series | |
| Series name | WPMM Series | |
| Availability | Global, license-free bands | |
| Housing material | LCP, VECTRA E130i | |
| Housing type | Snap-in panel or screw mount design | |
| Radio type | WPAN 802.15.4, 2.4 GHz | |
| Antenna type | Direct mount or remote antenna options; Omni directional | |
| Signal range | Nominal 304 m* for International use (Europe and Australia due to signal restrictions); Nominal 1000 ft* for use in US and Canada *clear line of sight between Limitless [™] switch and WPMM when using 2.1 dBi integral antenna | |
| Supply voltage | 10 Vdc to 30 Vdc | |
| Supply current | 750 mA | |
| Output type | NPN current sinking; normally open | |
| 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 | |
| EMC | Latest applicable standards: EN 300 328, V1.7.1; EN 61326-1 (2006); EN 301 489-1, V1.8.1; EN 301 489-17, V2.1.1 | |
| Shock | IEC 60068-2-27; half sine, 10 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- 5g | |
| Operating temperature | -40 °C to 85 °C [-40 °F to 185 °F] | |
| Agency approvals and standards | s and standards FCC 15.247 Industry Canada RSS 210 ETSI, CE mark ACMA, C-Tick mark | |
| UNSPSC code | 20142601 | |
| UNSPSC commodity | 20142601 | |

* Actual range will vary depending on antenna, cables, and site topography.

STANDARD LIMITLESS™ WPMM LISTINGS

| Part Number | Description | | |
|-------------|---|--|--|
| WPMM1A02A | Limitless™ WPMM Series Monitor, 2.1 dBi omni antenna (tilt & swivel design), for use in US/Canada | | |
| WPMM1A03A | Limitless™ WPMM Series Monitor, 3.0 dBi omni antenna with remote adhesive mounting with 9.8 ft cable, for use in US/Canada | | |
| WPMM1A04A | Limitless [™] WPMM Series Monitor, 5.5 dBi omni antenna (tilt & swivel design) with remote magnetic mounting with 5 ft cable, for use in US/Canada | | |
| WPMM1A05A | Limitless™ WPMM Series Monitor, 5.5 dBi omni antenna (tilt & swivel design) with remote magnetic mounting with 10 ft cable, for use in US/Canada | | |

Wireless Limit Switches







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Wireless Limit Switches

LIMITLESS[™] WPB BRACKET























8.0 dBi omni w/ bracket, straight des 1 ft cable

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LIMITLESS™ ANTENNAS

| WAN01RSP | WAN02RSP | WAN05RSP with | | WAN06RNJ |
|-----------------|----------------------|----------------------------------|------------------------|------------------|
| Straight Design | | WAMM100RSP-005 | | Straight Design, |
| Direct Mount | Design, Direct Mount | Tilt and Swivel Design, Magnetic | WAN03RSP Flat Design, | Bracket Mount |
| Connector | Antenna | Mount Antenna | Adhesive Mount Antenna | Antenna |
| | | | | |

Wireless Limit Switches



LIMITLESS™ CABLE ACCESSORIES

WCA200RNPRSP-002/010 Cable Assembly



🛦 WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

A WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

A WARNING

Honeywell does not recommend using devices for critical control applications where there is, or may be, a single point of failure or where single points of failure may result in an unsafe condition. It is up to the end-user to weigh the risks and benefits to determine if the products are appropriate for the application based on security, safety and performance. Additionally, it is up to the end-user to ensure that the control strategy results in a safe operating condition if any crucial segment of the control solution fails.

Failure to comply with these instructions could result in death or serious injury.

WARRANTY/REMEDY

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

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

SALES AND SERVICE

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office or:

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