Honeywell

Limitless" Solutions



Limitless™ Wireless Operator Interface **WOI Series**

Limitless[™] WOI Series Wireless Operator Interface

The Limitless[™] product line extends to include the wireless operator interface. With momentary or maintained contacts, the wireless operator interface (WOI) can be used by an operator to provide control 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.

The WOI Series is especially beneficial for remote control and monitoring applications where wiring or wire maintenance is not physically possible or economically feasible. Combining this greater flexibility with proven harsh-duty packaging can result in increased efficiencies and ease in establishing a remote operator for use in a variety of applications, including turning equipment or devices on or off, opening and closing doors/gates, stopping a production conveyor, indicating the need for service, and more.

What makes our wireless solutions better?

- Enables control and/or notification in remote parts of application/machinery/manufacturing plants, where wiring is too costly or not possible
- Flexibility for users to choose and install their desired 22 mm operator type (i.e. 22 mm rotary switch, 22 mm key switch, and more)
- Ability to reconfigure and network multiple interfaces, or pointto-point with personalized addresses which allows for adding, subtracting, or relocating Limitless™ inputs easily
- Reduced installation/maintenance costs with no wiring to Limitless™ switches, conduit, strain relief, clips, connectors, junction boxes, etc.
- Eliminates issues with wire connection integrity on moving equipment



INDUSTRY STANDARD VALUE • RELIABLE

Features and Benefits

WIRELESS DESIGN

Radio (license-free and global): WPAN 802.15.4, 2.4 GHz, point-to-point to deliver **reliable, flexible, and secure wireless transmission**. Enables operator control through the use of 22 mm pushbuttons from remote locations where wiring is too costly or not practical (up to 305 m [1000 ft]).

WELL-SUITED FOR TOUGH ENVIRONMENTS

WOI Series features an **IP65 sealed** aluminum enclosure with direct or remote mount antenna options.

Range of 305 m [1000 ft]

REMOTE CONTROL AND MONITORING

License-free RF wireless protocol standards (IEEE 802.15.4) allow for remote control and monitoring of processes and equipment. **Designed for global availability**, the WOI offers a wide variety of Limitless™ inputs with simple and universal PLC connections.

Consumes ultra-low power to prolong battery life

DESIGN OPTIONS

End users may **install a desired operator** (22 mm rotary switch, key switch, etc.) or utilize one of Honeywell's pushbutton options: 22 mm flush, 29 mm mushroom, or 40 mm mushroom (push-pull) round pushbutton. Offers the ability to be used in conjunction with Limitless™ switches configured on a single Limitless™ receiver.

RECONFIGURABLE

Able to reconfigure multiple WOI inputs which easily allows for adding, subtracting, or relocating of LimitlessTM WOI switches. **Eliminates issues with wire connection integrity** on moving equipment.

REDUCES COSTS

Reduces installation/maintenance costs with no wires, conduit, strain relief, clips, connectors, connection boxes, etc.

Potential Applications

with elements of control, notification, and/or setup



INDUSTRIAL

- CNC machinery
- Door/Gate action
- Material handling
- Presses
- Quality control functions
- Stop/Start machinery
- Valve/Solenoids

- Conveyors
- Lifts
- Motor drives
- Pumps
- Specialty machines
- Stop/Start production

TRANSPORTATION

Agricultural equipment

Movable machinery

Table 1. Specifications

Characteristic	Parameter Parame			
Series name	WOI Series			
Product type	Limitless™ Operator Interface Switches			
Availability	Global, license-free bands			
Operating force	Momentary pushbutton: 6,2 N ±2 N [1.4 lb ±0.45 lb]			
	Maintained pushbutton: 7,0 N ±2 N [1.6 lb ±0.45 lb]			
	Pushbutton operators:			
	22 mm round flush momentary			
Actuator type	29 mm mushroom head momentary			
	40 mm mushroom head maintained (push-pull);			
	No 22 mm pushbutton supplied, user provides suitable 22 mm pushbutton product with contact block			
Actuator/Contact blocks	22 mm switch design (i.e. 22mm rotary switch, 22mm key switch, etc.) /gold contact, normally open and			
(if user supplied)	normally closed contact blocks capable of reliably controlling a 30 mA @ 3.6 Vdc electrical load			
	Black, Green, Red*, Yellow			
Actuator colors	* not available for the 29 mm mushroom and 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			
Signal range*	Nominal 305 m [1000 ft] clear line of sight between Limitless™ WOI switch and monitor/receiver			
Signal range	when using 2.2 dBi integral antennas			
Detter	3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size (Est. life >1.5 years)			
Battery	Manufactured by Green Energy p/n ER14335M			
Sealing	IP65			
EMC	Latest applicable standards: EN 300 328, V1.7.1; EN 61326-1 (2006);			
EIVIC	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 Hz to 58 Hz w/ 1,50 mm peak-to-peak, 58-500 Hz @ 10g			
Operating temperature	-25 °C to 50 °C [-13 °F to 122 °F]			
	FCC 15.247			
Agency approvals and	Industry Canada RSS 210			
standards	ETSI, CE mark			
	ACMA, C-Tick mark			

^{*} Actual range will vary depending upon antennas, cables, and site topography.

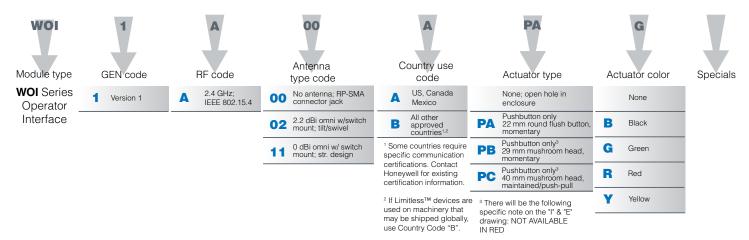
Limitless™ Wireless Operator Interface

WOI SERIES ORDER GUIDE (STANDARD LISTINGS)

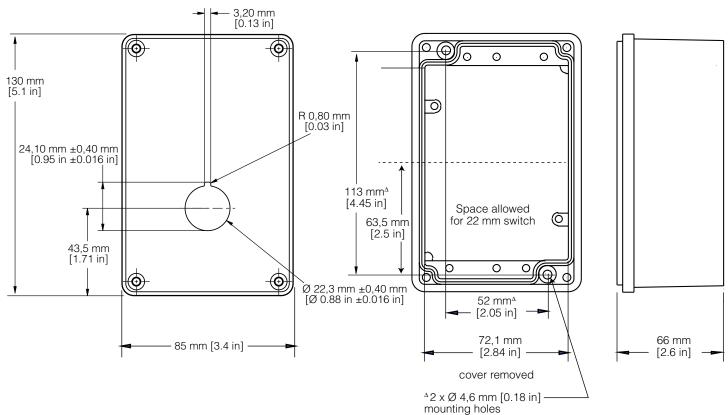
	Part number	Description	Part number	Description
	WOI1A00APAG	Limitless™ WOI, no antenna, 22 mm round flush momentary green pushbutton, for use in US/Canada	WOI1A00BPAG	Limitless™ WOI, no antenna, 22 mm round flush momentary green pushbutton, for use in all other approved countries
House and	WOI1A00APAR	Limitless™ WOI, no antenna, 22 mm round flush momentary red pushbutton, for use in US/Canada	WOI1A00BPAR	Limitless™ WOI, no antenna, 22 mm round flush momentary red pushbutton, for use in all other approved countries
	WOI1A11APAG	Limitless™ WOI, 0 dBi straight antenna, 22 mm round flush momentary green pushbutton, for use in US/Canada	WOI1A11BPAG	Limitless™ WOI, 0 dBi straight antenna, 22 mm round flush momentary green pushbutton, for use in all other approved countries
	WOI1A11APAR	Limitless™ WOI, 0 dBi straight antenna, 22 mm round flush momentary red pushbutton, for use in US/Canada	WOI1A11BPAR	Limitless™ WOI, 0 dBi straight antenna, 22 mm round flush momentary red pushbutton, for use in all other approved countries
	WOI1A00APBY	Limitless™ WOI, no antenna, 29 mm mushroom head momentary yellow pushbutton, for use in US/ Canada	WOI1A00BPBY	Limitless™ WOI, no antenna, 29 mm mushroom head momentary yellow pushbutton, for use in all other approved countries
	WOI1A00APCY	Limitless™ WOI, no antenna, 40 mm maintained yellow pushbutton, for use in US/Canada	WOI1A00BPCY	Limitless™ WOI, no antenna, 40 mm maintained yellow pushbutton, for use in all other approved countries
	WOI1A11APBY	Limitless™ WOI, 0 dBi straight antenna, 29 mm mushroom head momentary yellow pushbutton, for use in US/Canada	WOI1A11BPBY	Limitless™ WOI, 0 dBi straight antenna, 29 mm mushroom head momentary yellow pushbutton, for use in all other approved countries
Market 198	WOI1A11APCY	Limitless™ WOI, 0 dBi straight antenna, 40 mm maintained yellow pushbutton, for use in US/Canada	WOI1A11BPCY	Limitless™ WOI, 0 dBi straight antenna, 40 mm maintained yellow pushbutton, for use in all other approved countries

WOI Series

PRODUCT NOMENCLATURE



PRODUCT DIMENSIONS



Limitless™ Wireless Operator Interface

ANTENNA OPTIONS





















WOI Series

This Honeywell datasheet supports the following Limitless WOI Series Listings

WOI1A00A	WOI1A02A	WOI1A11A
		WOI1A11APAB
WOI1A00APAB	WOI1A02APAB	WOI1A11APAG
WOI1A00APAG	WOI1A02APAG	
WOI1A00APAR	WOI1A02APAR	WOI1A11APAR
WOI1A00APAY	WOI1A02APAY	WOI1A11APAY
WOI1A00APBY	WOI1A02APBY	WOI1A11APBY
		WOI1A11APCY
WOI1A00APCY	WOI1A02APCY	WOI1A11B
WOI1A00B	WOI1A02B	
WOI1A00BPAB	WOI1A02BPAB	WOI1A11BPAB
WOI1A00BPAG	WOI1A02BPAG	WOI1A11BPAG
		WOI1A11BPAR
WOI1A00BPAR	WOI1A02BPAR	WOI1A11BPAY
WOI1A00BPAY	WOI1A02BPAY	WOITATIBPBY
WOI1A00BPBY	WOI1A02BPBY	
WOI1A00BPCY	WOI1A02BPCY	WOI1A11BPCY

ADDITIONAL INFORMATION

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

- Product installation instructions
- · Product range guide
- Product brochure
- White Paper: Limitless™ Switches Offer Unlimited Benefits

WARNINGPERSONAL 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.

AWARNING

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.

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 website, 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.

Find out more

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.

To learn more about Honeywell's sensing and control products, call +1-815-235-6847 or 1-800-537-6945, visit sensing.honeywell.com, or e-mail inquiries to

info.sc@honeywell.com

Sensing and Control Honeywell 1985 Douglas Drive North Golden Valley, MN 55422



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Click to view similar products for Pushbutton Switches category:

Click to view products by Honeywell manufacturer:

Other Similar products are found below:

LW1L-M1C10V-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M7E-HRN2 67021K512 67081K512X 701PB580 719-5504-000

MDPSSGLFS 810KSV30B MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8646AB6X718UL 8646ABUL FSDWH 9001KXRK

9001T8BK 9533CD4+U574+U4922 1203MRA A22EM01S A595 1202A6 12037A2ULCSA 1203A2UL ABD122N-B 1211390004

ABN111-Y 1211500044 1211580012 1212MRA 1232A6NF RA3CSH6A 1241.1183.7047 1241.2511 1241.3428 1223A2ULCSA

1223MRA 1232AX2119 1241.1183.8000 1241.1183.8029 1241.2506 1241.2606 12MA6 1301940184 RELBARF6X10(PLASTIC)

13435AG 13440AD2G25X822+U4546 13445A4GX768