WOI Series

Limitless™ Wireless Operator Interface

DESCRIPTION

The Limitless™ product line extends to include wireless operator interface. With both momentary and maintained contacts, the 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.

The WOI Series is especially beneficial for remote monitoring applications where wiring or wire maintenance is not physically possible or economically feasible. Combining this greater flexibility with proven harsh-duty packaging can result in increased efficiencies and 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 much more.

FEATURES

Wireless Design

- Radio (license-free and global): WPAN 802.15.4, 2.4 GHz, point-to-point
- FCC 15, IC, ACMA & ETSI
- RoHS compliant
- EMI immunity
- Up to 305 m [1000 ft] communication range when used with a Limitless™ wireless monitor or receiver module (sold separately)
- Reliable, flexible, and secure wireless transmission
- Standard replaceable battery with ultra-low power consumption
- Direct or remote mount antenna options

Mechanical Design

- 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

BENEFITS

- Enables operator indication (i.e. push button) from remote locations where wiring is to costly or not possible
- Flexibility for users to choose and install their desired operator type; i.e. 22 mm rotary switch, 22 mm key switch, etc.
- Ability to reconfigure and network multiple WOI inputs, or point-to-point with personalized addresses, which allows for adding, subtracting or relocating of Limitless™ WOI switches easily
- Offers the ability to be used in conjunction with Limitless™ switches configured on a single Limitless™ receiver
- Reduced installation/maintenance costs with no wires, conduit, strain relief, clips, connectors, connection boxes, etc.
- Eliminates issues with wire connection integrity on moving equipment
- Consumes ultra-low power to prolong battery life

POTENTIAL APPLICATIONS

Industrial

- CNC action
- Door/Gate action
- Material handling
- Presses
- Quality control buttons
- Stop/Start machinery
- Valve action
- Conveyors
- Lifts
- Motor drives
- Pumps
- Specialty machines
- Stop/Start production

Transportation

- Agricultural equipment
- Movable machinery

Limitless™ WOI Series

PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Series name	WOI Series
Product type	Limitless™ Operator Interface Switches
Availability	Global, license-free bands
Operating fprce	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]
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. 22mm rotary switch, 22mm 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 mushroom, & 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 when using 2.2 dBi integral antennas
Battery	3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size (Est. life >1.5 years) Manufactured by Uniwell, p/n DEV-10-0009; or Green Energy p/n ER14335M
Sealing	IP65
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, 50 g, 6 mS, 3 axis
Vibration	IEC 60068-2-6; 10-500Hz w/ 0,35 mm peak-to-peak, 58-500 Hz- 10g
Operating temperature	-25 °C to 50 °C [-13 °F to 122 °F]
Agency approvals and standards	FCC 15.247 Industry Canada RSS 210 ETSI, CE mark ACMA, C-Tick mark

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

PRODUCT NOMENCLATURE

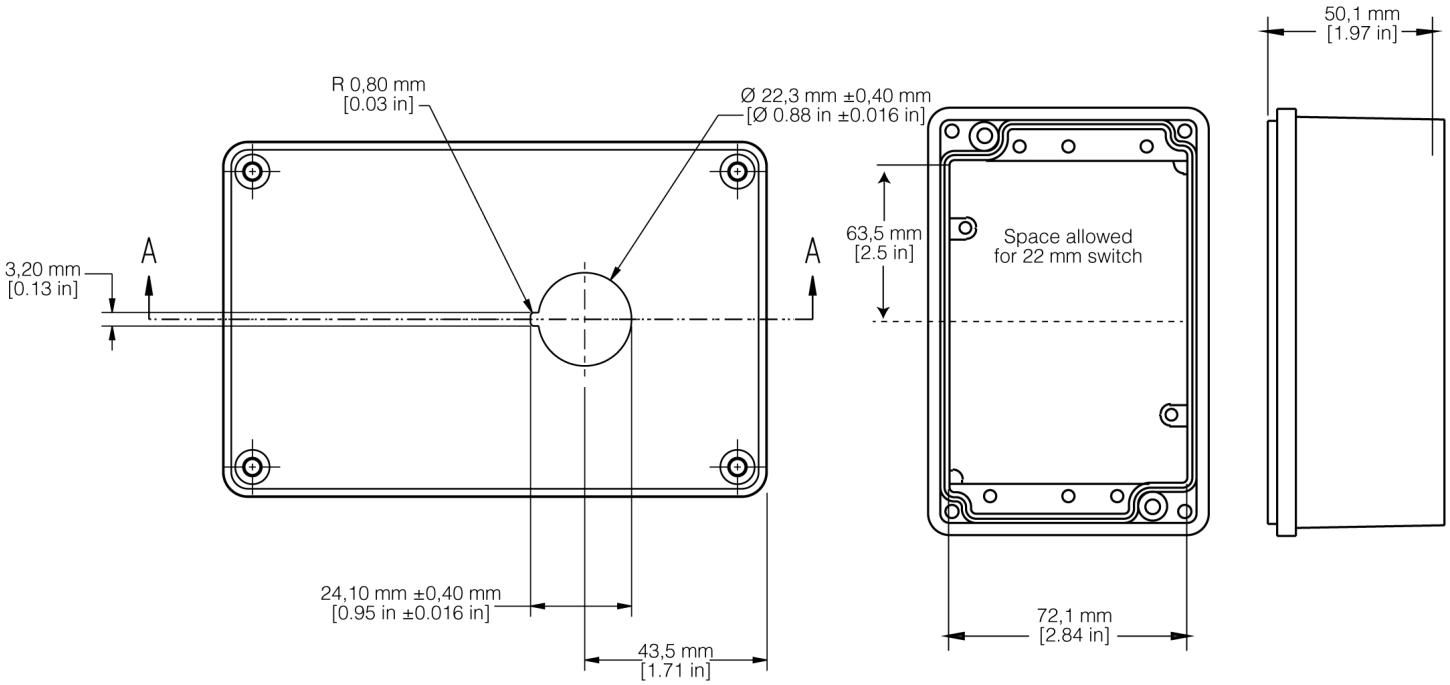
WOI	1	A	00	A	PA	G
Module type	GEN code	RF code	Antenna type code	Country use code	Actuator type	Actuator color	Specials
WOI Series Operator Interface	**1** Version 1	**A** 2.4 GHz; IEEE 802.15.4	**00** No antenna; RP-SMA connector jack **02** 2.2 dBi omni w/switch mount; tilt/swivel **11** 0 dBi omni w/ switch mount; str. design	**A** US, Canada Mexico **B** All other approved countries[1,2]	None; open hole in enclosure **PA** Pushbutton only 22 mm round flush button, momentary **PB** Pushbutton only[3] 29 mm mushroom head, momentary **PC** Pushbutton only[3] 40 mm mushroom head, maintained/push-pull	None **B** Black **G** Green **R** Red **Y** Yellow

[1] Some countries require specific communication certifications. Contact Honeywell for existing certification information.

[2] If Limitless™ devices are used on machinery that may be shipped globally, use Country Code "B".

[3] There will be the following specific note on the "I" & "E" drawing: NOT AVAILABLE IN RED

PRODUCT DIMENSIONS



Limitless™ WOI Series

STANDARD LISTINGS

	Part number	Description
	WOI1A00APAG	Limitless™ WOI, no antenna, 22 mm round flush momentary green pushbutton, for use in US/Canada
	WOI1A00APAR	Limitless™ WOI, no antenna, 22 mm round flush momentary red pushbutton, for use in US/Canada
	WOI1A11APAG	Limitless™ WOI, 0 dBi straight antenna, 22 mm round flush momentary green pushbutton, for use in US/Canada
	WOI1A11APAR	Limitless™ WOI, 0 dBi straight antenna, 22 mm round flush momentary red pushbutton, for use in US/Canada
	WOI1A00APBY	Limitless™ WOI, no antenna, 29 mm mushroom head momentary yellow pushbutton, for use in US/Canada
	WOI1A00APCY	Limitless™ WOI, no antenna, 40 mm maintained yellow pushbutton, for use in US/Canada
	WOI1A11APBY	Limitless™ WOI, 0 dBi straight antenna, 29 mm mushroom head momentary yellow pushbutton, for use in US/Canada
	WOI1A11APCY	Limitless™ WOI, 0 dBi straight antenna, 40 mm maintained yellow pushbutton, for use in US/Canada

	Part number	Description
	WOI1A00BPAG	Limitless™ WOI, no antenna, 22 mm round flush momentary green pushbutton, for use in all other approved countries
	WOI1A00BPAR	Limitless™ WOI, no antenna, 22 mm round flush momentary red pushbutton, for use in all other approved countries
	WOI1A11BPAG	Limitless™ WOI, 0 dBi straight antenna, 22 mm round flush momentary green pushbutton, for use in all other approved countries
	WOI1A11BPAR	Limitless™ WOI, 0 dBi straight antenna, 22 mm round flush momentary red pushbutton, for use in all other approved countries
	WOI1A00BPBY	Limitless™ WOI, no antenna, 29 mm mushroom head momentary yellow pushbutton, for use in all other approved countries
	WOI1A00BPCY	Limitless™ WOI, no antenna, 40 mm maintained yellow pushbutton, for use in all other approved countries
	WOI1A11BPBY	Limitless™ WOI, 0 dBi straight antenna, 29 mm mushroom head momentary yellow pushbutton, for use in all other approved countries
	WOI1A11BPCY	Limitless™ WOI, 0 dBi straight antenna, 40 mm maintained yellow pushbutton, for use in all other approved countries

ANTENNA OPTIONS

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

Limitless™ WOI Series

ANTENNA CABLE OPTIONS

WCA200RNPRSP-002 Cable Assembly: 2 ft[1]
WCA200RNPRSP-010 Cable Assembly: 10 ft[1]

[1] *use only with WAN06RNJ antenna and when extra cable is desired*

WCA200RNJRSP-002 Cable Assembly: 2 feet length[2]
WCA200RNJRSP-005 Cable Assembly: 5 feet length[2]
WCA200RNJRSP-010 Cable Assembly: 10 feet length[2]
WCA200RNJRSP-015 Cable Assembly: 15 feet length[2]
WCA200RNJRSP-020 Cable Assembly: 20 feet length[2]

[2] *Use when extra cable length is desired and allows connection from RP-SMA jack to RP-SMA plug*

MOUNTING OPTIONS

Limitless™ Panel Mount Accessories
WAMM100RSP-005 Magnetic Antenna Mount: w/ 5 ft of cable[3]
WAMM100RSP-010 Magnetic Antenna Mount: w/ 10 ft of cable[3]

[3] *Use only with WAN01RSP, WAN02RSP, WAN04RSP, WAN05RSP, or WAN08RSP antennas*

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Warranty. 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 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.

⚠ WARNING

MISUSE OF DOCUMENTATION

- The information presented in this datasheet is for reference only. DO NOT USE this document as product installation information.
- 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.

⚠ 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.

⚠ 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. Honeywell customers assume full responsibility for learning and meeting the required Declaration of Conformity, Regulations, Guidelines, etc. for each country in their distribution market.

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/ 1-800-537-6945**, visit **www.honeywell.com/limitless,** or e-mail inquiries to **info.sc@honeywell.com**

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LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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