Honeywell



Wireless Global Limit Switch (EN 50041) Limitless™ Switch

DESCRIPTION

The new Limitless[™] product line combines the best of MICRO SWITCH[™] global limit switches with the latest commercial offthe-shelf wireless technology. Wireless-enabled limit switches can now be used for position sensing and presence/absence detection for an endless number of applications.

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 304 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

- EN50041 metal enclosure
- IP67; NEMA 1,4,12,13
- Full complement of operating heads and levers
- Modular construction of components
- Design for ease of installation

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 and improved safety for machines, equipment, OEMs, and operators.

BENEFITS

- Enables presence/absence detection in remote parts of application / machinery, where wiring is an issue or not feasible
- 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 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

- Valve position
 Construction/Ag machines
- Crane
 boom/jib/skew

handling

Presses

Lifts

- ConveyorsRemote or temporary equipment
- position
 - Movable machinery
 - Grain diverters or flaps
- Material Door position
 - Hose attachment verification
 - Specialty machines

Description	Parameter	
Series name	WGLA Series	
Product type	Limitless™ Global Limit Switches	
Availability	Global, license-free bands	
Operating Characteristics	Reference wireless global limit switch specifications (WGLA Series)	
Actuator	Side rotary, top plunger, top roller, top roller lever	
Lever type	Rotary lever included w/side rotary- other lever options available	
Housing material	Powder coated zinc die-cast	
Housing type	EN 50041	
Radio	WPAN 802.15.4; 2.4GHz	
Antenna type	Direct or remote mount 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 monitor/receiver when using 2.2 dBi integral antenna	
Battery	3.6 Vdc Lithium Thionyl Chloride; 2/3 AA size (Est. life >1yr) Manufactured by Uniwell, part number DEV-10-0009	
Sealing	IP67; NEMA 1, 4, 12, 13	
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; 10-500Hz w/ 0,35 mm peak-to-peak, 58-500 Hz- 5g	
Operating temperature	-40 °C to 85 °C [-40 °F to 185 °F] (side rotary) -25 °C to 85 °C [-13 °F to 185 °F] (all other housing styles)	
Agency approvals and standards	FCC 15.247 Industry Canada RSS 210 ETSI, CE mark ACMA, C-Tick mark	
UNSPSC code	20142601	
UNSPSC commodity	20142601	
Sealed	Industrial	

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



DIMENSIONS

GLZ51T

GLZ51Y

Stainless Steel

Rubber

Side Rotary Head with GLZ51 Series Lever



ØX e 38,1 mm to 91,5 mm [1.5 in to 3.60 in] Adjustable П 0 0 б Æ

X Dim	Y Dim	Z Dim	Lever	Roller Material	X Dim	Y Dim	Z Dim
19,1 mm [0.75 in]	55,9 mm [2.2 in]	6,4 mm [0.25 in]	GLZ52A	Nylon	19,1 mm [0.75 in]	65,9 mm [2.59 in]	6,4 mm [0.25 in]
19,1 mm [0.75 in]	55,9 mm [2.2 in]	6,4 mm [0.25 in]	GLZ52B	Steel	19,1 mm [0.75 in]	65,9 mm [2.59 in]	6,4 mm [0.25 in]
19,1 mm [0.75 in]	56,8 mm [2.24 in]	8,8 mm [0.35 in]	GLZ52D	Nylon	38,1 mm [1.5 in]	65,9 mm [2.59 in]	6,4 mm [0.25 in]
50,0 mm [1.97 in]	66,1 mm [2.60 in]	10,0 mm [0.39 in]	GLZ52E	Nylon	19,1 mm [0.75 in]	79,4 mm [3.13 in]	33,1 mm [1.30 in]
			GLZ52W	Rubber	40,0 mm [1.57 in]	71,5 mm [2.81 in]	12,7 mm [0.5 in]
			GLZ52Y	Rubber	50,0 mm [1.97 in]	68,8 mm [2.71 in]	10,0 mm [0.39 in]

Side Rotary Head with GLZ52 Series Lever

DIMENSIONS





STANDARD WGLA LISTINGS

Part Number	Description		
WGLA1A01AA1A	Limitless [™] Series WGLA Global Limit Switch, 2.2 dBi omni straight antenna, use in US/Canada, side rotary – momentary, standard lever with 19 mm x 6,35 mm [0.75 in x 0.25 in] nylon roller		
WGLA1A01AA1B	Limitless™ Series WGLA Global Limit Switch, 2.2 dBi omni straight antenna, use in US/Canada, side rotary – momentary, standard lever with 19 mm x 6,35 mm [0.75 in x 0.25 in] steel roller		
WGLA1A01AA4J	Limitless [™] Series WGLA Global Limit Switch, 2.2 dBi omni straight antenna, use in US/Canada, side rotary – momentary, 200 mm aluminum adjustable rod actuator		
WGLA1A01AB	Limitless™ Series WGLA Global Limit Switch, 2.2 dBi omni straight antenna, use in US/Canada, top pin plunger		
WGLA1A01AC	Limitless™ Series WGLA Global Limit Switch, 2.2 dBi omni straight antenna, use in US/Canada, top roller plunger		
WGLA1A01AD	Limitless™ Series WGLA Global Limit Switch, 2.2 dBi omni straight antenna, use in US/Canada, top roller lever		
WGLA1A02AA1A	Limitless [™] Series WGLA Global Limit Switch, 2.2 dBi omni tilt & swivel antenna, use in US/Canada, side rotary – momentary, standard lever with 19 mm x 6,35 mm [0.75 in x 0.25 in] nylon roller		
WGLA1A02AA1B	Limitless [™] Series WGLA Global Limit Switch, 2.2 dBi omni tilt & swivel antenna, use in US/Canada, side rotary – momentary, standard lever with 19 mm x 6,35 mm [0.75 in x 0.25 in] steel roller		
WGLA1A02AA4J	Limitless™ Series WGLA Global Limit Switch, 2.2 dBi omni tilt & swivel antenna, use in US/Canada, side rotary – momentary, 200 mm aluminum adjustable rod actuator		
WGLA1A02AB	Limitless™ Series WGLA Global Limit Switch, 2.2 dBi omni tilt & swivel antenna, use in US/Canada, top pin plunger		
WGLA1A02AC	Limitless™ Series WGLA Global Limit Switch, 2.2 dBi omni tilt & swivel antenna, use in US/Canada, top roller plunger		
WGLA1A02AD	Limitless™ Series WGLA Global Limit Switch, 2.2 dBi omni tilt & swivel antenna, use in US/Canada, top roller lever		
WGLA1A04AA1A	Limitless [™] Series WGLA Global Limit Switch, 5.5 dBi omni remote magnetic mount/tilt & swivel antenna with 5ft of cable, use in US/Canada, side rotary – momentary, standard lever with 19 mm x 6,35 mm [0.75 in x 0.25 in] nylon roller		
WGLA1A04AA1B	Limitless [™] Series WGLA Global Limit Switch, 5.5 dBi omni remote magnetic mount/tilt & swivel antenna with 5ft of cable, use in US/Canada, side rotary – momentary, standard lever with 19 mm x 6,35 mm [0.75 in x 0.25 in] steel roller		
WGLA1A04AA4J	Limitless [™] Series WGLA Global Limit Switch, 5.5 dBi omni remote magnetic mount/tilt & swivel antenna with 5ft of cable, use in US/Canada, side rotary – momentary, 200 mm aluminum adjustable rod actuator		
WGLA1A04AB	Limitless™ Series WGLA Global Limit Switch, 5.5 dBi omni remote magnetic mount/tilt & swivel antenna with 5ft of cable, use in US/Canada, top pin plunger		
WGLA1A04AC	Limitless™ Series WGLA Global Limit Switch, 5.5 dBi omni remote magnetic mount/tilt & swivel antenna with 5ft of cable, use in US/Canada, top roller plunger		
WGLA1A04AD	Limitless [™] Series WGLA Global Limit Switch, 5.5 dBi omni remote magnetic mount/tilt & swivel antenna with 5ft of cable, use in US/Canada, top roller lever		

ACCESSORIES NOMENCLATURE

Antenna Nomenclature



Limitless™ Antennas

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



Limitless[™] Cable Accessories WCA200RNPRSP-002/010 Cable Assembly



Antenna Mounting Nomenclature



Limitless™ Panel Mount Accessories WAMM100RSP-005/010 Magnetic Antenna Mount



STANDARD ACCESSORIES		
Part Number	Description	
WAN03RSP	Flat wireless antenna with 3 dBi gain, reverse polarity SMA plug, adhesive mount with 10 ft of cable	
WAN06RNJ	Straight wireless antenna with 8 dBi gain, reverse polarity N jack, bracket mount with 1 ft of cable	
WAN01RSP	Straight wireless antenna with 2.2 dBi gain, reverse polarity SMA plug, connector mount (RP-SMA)	
WAN02RSP	Tilt/swivel wireless antenna with 2.2 dBi gain, reverse polarity SMA plug, connector mount (RP-SMA)	
WAN04RSP	Tilt/swivel wireless antenna with 5.5 dBi gain, reverse polarity SMA plug, connector mount (RP-SMA)	
WAN05RSP	Tilt/swivel wireless antenna with 9 dBi gain, reverse polarity SMA plug, connector mount (RP-SMA)	
WCA200RNPRSP-002	200 Series coax cable assembly, reverse polarity N plug, reverse polarity SMA plug, 2 ft of cable	
WCA200RNPRSP-010	200 Series coax cable assembly, reverse polarity N plug, reverse polarity SMA plug, 10 ft of cable	
WAMM100RSP-005	Magnetic antenna mounting, 100 Series coax cable, reverse polarity SMA plug with 5 ft of cable	
WAMM100RSP-010	Magnetic antenna mounting, 100 Series coax cable, reverse polarity SMA plug with 10 ft of cable	

STANDARD ACCESSORIES

A 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:

E-mail: info.sc@honeywell.com

Internet: www.honeywell.com/sensing

Phone and Fax:

Asia Pacific	+65 6355-2828
	+65 6445-3033 Fax
Europe	+44 (0) 1698 481481
	+44 (0) 1698 481676 Fax
Latin America	+1-305-805-8188
	+1-305-883-8257 Fax
USA/Canada	+1-800-537-6945
	+1-815-235-6847
	+1-815-235-6545 Fax

Sensing and Control Honeywell 1985 Douglas Drive North Golden Valley, MN 55422 www.honeywell.com

Honeywell

002317-3-EN IL50 GLO Printed in USA June 2010 Copyright © 2010 Honeywell International Inc. All rights reserved.





Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.З, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж: moschip.ru moschip.ru_4

moschip.ru_6 moschip.ru_9