

Application Note

Limitless™ Wireless Solutions on Hangar Doors

Background

Large aircraft hangar doors often have small, personal cutout doors that are left open. Opening the main door while the smaller door is unsecured can cause thousands of dollars in hangar and/or aircraft damage.

Challenges

The personal door is encased in the folding main door, so getting communication cabling and power to the personal door is a significant engineering challenge. Hundreds of feet of cable can be required to get the signal back to the door controller.

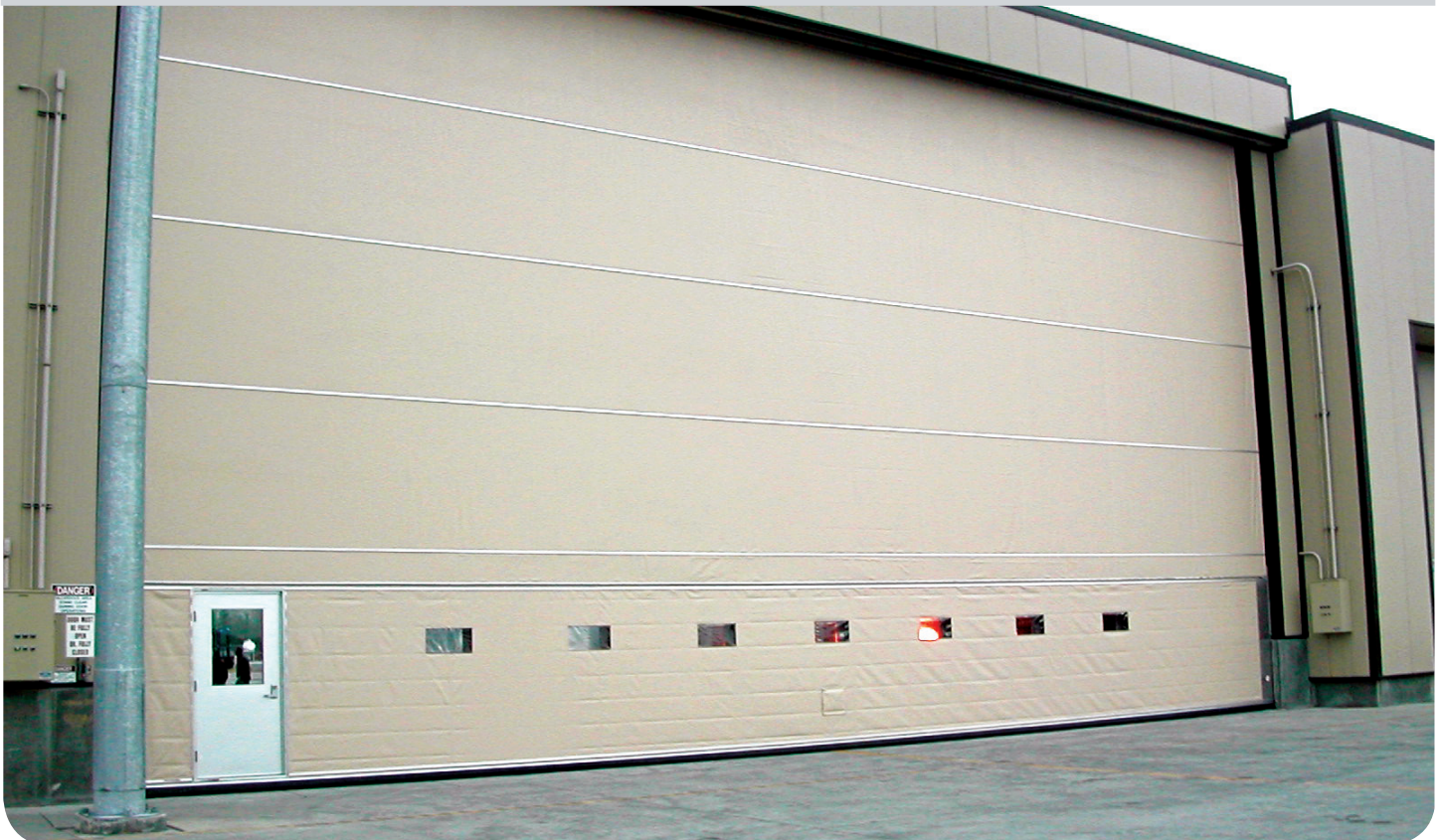
Solutions

Honeywell's Limitless™ wireless solutions do not require complex wiring arrangements or long wire runs, and therefore, can meet the challenges of long distance transmission and harsh environments while minimizing cost and engineering time. A Limitless™ WGLA Global Limit Switch gets activated when the personal door is closed and provides an output to the door control system with the door's status.

Benefits


Value – Limitless™ product solution saves thousands of dollars per installation. Simplicity – no wiring, conduits, clips or connectors to purchase or install, which increases system reliability, allows easier installation and eliminates errors.

Limitless™ solutions can save thousands of dollars on hangar doors with personal cutout doors.



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Limitless™ WGLA Series Global Limit Switch	Limitless™ WLS Series Heavy-Duty Limit Switch	Limitless™ WPMM Series Monitor	Limitless™ WDRR DIN-Rail Receiver
			
Benefits			
<ul style="list-style-type: none"> • Enables wireless presence/absence detection in applications/machinery where wiring is challenging or not feasible • Integration of existing wireless technology with the superior reliability of Honeywell's MICRO SWITCH™ limit switch series • Ability to reconfigure and network multiple switches, easily allowing addition, subtraction or relocation of Limitless™ switches • Reduces installation/maintenance costs with no wires, conduit, strain relief, clips, connectors or connection boxes • RF board operating in 2.4 GHz globally license-free frequency band; WPAN 802.15.4 • In excess of 305 m [1000 ft] line-of-sight communication 			
<ul style="list-style-type: none"> • EN50041 metal enclosure • IP67; NEMA 1, 4, 12, 13 • Multiple operating heads and lever options • -40 °C to 85 °C operating temperature (side rotary); -25 °C to 85 °C operating temperature (all other actuators) 	<ul style="list-style-type: none"> • EN50041 metal enclosure • IP67/IP68; NEMA 1, 3, 4, 6, 6P, 12, 13 • Unique all-metal drive train • Twin shaft seals (rotary) • Zinc head and body are phosphate treated and epoxy finished making it less susceptible to effects from environmental exposure • Full complement of operating heads and levers • -40 °C to 85 °C operating temperature; -30 °C to 85 °C operating temperature (wobble sticks) 	<ul style="list-style-type: none"> • Provides a visual, audio and NPN, PNP, totem pole, or relay output based on a signal received from a Limitless™ input • Up to sixteen configurable outputs for up to 16 Limitless™ inputs • Field pairing allows for rapid configuration • Snap-in panel or screw-mount design • -40 °C to 85 °C operating temperature 	<ul style="list-style-type: none"> • Selectable NPN, PNP, totem pole or relay out • 14 configurable normally open or normally closed outputs for up to 14 Limitless™ inputs • Field pairing allows for rapid adding or subtracting inputs for quick configuration • DIN-Rail or screw-mount design • -20 °C to 70 °C operating temperature (all other actuators)

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.

Find Out More

To learn more about Limitless™ wireless limit switches, contact a Honeywell representative today at **1-800-537-6945** or visit **www.honeywell.com/limitless**

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