# wcx1 valve position sensor





#### Wireless technology eliminates the need for communications cabling or power line installation, saving time and money.

The WCX1 Valve Position Sensor allows remote, reliable valve position monitoring in a variety of applications to avoid the time and safety risk of manually monitoring valves in hazardous areas and remote installations.

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#### Reliable Operations. Enhanced Safety. Reduced Environmental Risk.

Honeywell's WCX1 position sensor really delivers in hazardous areas and remote installations.

# Based on the proven and reliable MICRO SWITCH<sup>™</sup> CX series hazardous location limit switch, these robust sensors are built tough to handle the most rugged conditions.

By combining the proven functionality of MICRO SWITCH<sup>™</sup> technology with a ISA100.11A wireless network, position sensors can now be used for many more remote monitoring applications, including: positioners, manual process valves, safety shower notification, tank level indication, door position, louver/damper position, or any other presence, absence or position sensing application where installing wires is inefficient or cost-prohibitive.

# **Reliable Operations**

- Accurately monitor process parameters in real-time
- Perform rapid disaster recovery
- Identify stuck valve conditions
- Monitor true valve position to minimize fluid mixing or cross-contamination risks

# **Enhance Safety**

• Reduce need for human site monitoring in areas that pose a safety risk

# **Reduce Environmental Risk**

Identify true position of the valve to minimize risk of unwanted fluid release

# Achieve Higher Efficiency and Productivity

- Increase process efficiencies through accurate valve position monitoring
- Electronic tagging of valves in the system
- Improve efficiency of scheduled maintenance by targeting valves that have degraded
- Scalability and flexibility with the ability to add/move valve position sensors
- Remotely monitor from anywhere in the facility
  - Reduce monitoring costs by eliminating manual valve checks
- Reduce potential for unintended fluid mixing

# Lower System and Commissioning Costs

- Reduce wiring material and labor costs
- Easily and quickly retrofit existing equipment
- Reduce system complexity
- Configure setpoints electronically
- Eliminate the need for conduit easements
- Reduce or eliminate the need for additional permits

# Position Sensing for valves and remote applications

Key Specifications	
Environmental	
Operating temperature	-40 °C to 70° C [-40 °F to 158 °F]
Storage temperature	-40 °C to 70° C [-40 °F to 158 °F]
Certifications	
Hazardous locations	U.S. and Canadian (cCSAus) for Division 1, Class I- Groups A, B, C & D; Class II – Groups E, F & G; Class III
	ATEX / IEC Ex – Ex d [ia] IIC T6 Gb; Ex tb IIIC T85C IP66/67 Db
Radio and EMC	FCC; CE mark per EMC and R&TTE Directives
	WCI certified for ISA100.11A
Enclosure	IP66, IP67; NEMA 1, 3, 4, 6, 6P, 13
Shock	IEC 60068-2-27 (40 g)
Vibration	IEC 60068-2-6 (5 g)
Mechanical	
Mounting	Mounting holes to be available as through or tapped
	Manual valve mounting bracket not included; customized bracket manufacturing by referral
Exterior Materials	
Housing	A380 die cast aluminum alloy
Cover	A380 die cast aluminum alloy
Shafts	303 stainless steel
Antenna	Use existing antenna options
Antenna adapter	303 stainless steel
Conduit plug	Plated low carbon steel
Nameplate	Aluminum

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# WCX1 Valve Position Sensor **Features and Benefits**

#### **Electrical Conduit/Antenna Interface**

- Two accesses in base as indicated in mounting drawing. Holes are tapped <sup>3</sup>/<sub>4</sub>-14 NPT (6 Full Threads min.).
- Product is shipped with a 2 dBi integral right-angle antenna ٠ assembly installed.

#### **Mechanical Options**

- Mounting holes to be available as through holes and tapped holes.
- Shaft options: Spline shaft (non-sparking actuators required); • D shaped shaft; Namur style shaft interface.
- Namur mounting adapter plate available.

#### **Electrical Calibration**

Done electronically by setting values for start point and range.

#### **Battery**

- C Cell Lithium (2)
- Units will be shipped with batteries installed\*. (\*dependent on freight carrier limitations)

#### **Packaging**

- Cardboard ٠
- CD contains Quick Start Guide, Professional Installation ٠ Guide, and DD files

#### Span Calibration

 Simplified span parameters set within wireless device manager.

# **Potential Applications**

- Positioners
- Manual process valves
- Safety shower notification
- Tank level indication
- Door position
- Louver/damper position

#### **Discover the Possibilities**

Call today to explore how to put this simple, reliable, and costeffective wireless solution to work for you.

#### **Typical System Setup**



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#### Find out more

To learn more about Honeywell's Limitless<sup>™</sup> solutions, call +1-815-235-6847, email inquiries to info.sc@honeywell.com, or visit honeywell.com/limitless

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