

Challenge

Wish to capitalize on the advantages of wireless but have application constraints with existing discrete switch or sensor: limited space, special mounting, or special design. Need to eliminate wires because of reliability issues or concerns with connector.

Banner Wireless Value

- **Ability to sense position**—Wirelessly sense presence/absence of mechanical devices
- **Eliminate wires**—No wires to get pinched or damaged from repeated flex on articulating machinery; no need to trench or cut concrete
- **No Power required**—Sense position in remote or difficult to access locations where no power or control wires are available
- **Reduce complexity**—Facility or machine reconfiguration made easier; great for retrofit applications
- **Peel and stick**—Can mount almost anywhere
- **IIoT**—Enables ability to remotely monitor equipment position
- **Safety and Energy Savings**—Enhance plant safety through notification or save energy through active door monitoring
- **Security**—Verify door/gate position



Banner Wireless Q45RDL Sensor

- Supports two (2) discrete or one (1) Namur input from any supplier
- Standard 4-pin Micro QD connector
- Four-color LED indication
- IP65 sealing

Key Applications

- Retrofit existing door position switch to eliminate wire integrity issues
- Plastic mold alignment pin position switches; eliminates connector integrity challenges during mold changes while maintaining existing position switch design
- Sensing ball or gate valve position through Namur inputs; with two inputs, support sensing both full open and full close position with one wireless Node
- Integrating specialty third party discrete devices into a wireless network

Model	Description	Radio	Inputs	Outputs
DX80N9Q45RDL-QD	Wireless Q45 Sensor Node	900 MHz	Two remote discrete or one Namur	One four-color LED indicator
DX80N2Q45RDL-QD		2.4 GHz		