

Challenge

Ability to sense position of mechanical mechanisms in applications where traditional wiring methods are not practical or feasible.

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 virtually 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 Q45RDNL Magnetic Sensor

- Sensing possible from three axes enables mounting flexibility
- Magnet provided; customer supplied magnets can be used
- Up to 1-inch sensing range
- LED status indication
- IP65 sealing

Key Applications

- Dock or hanger doors—Sense door position: open/closed, door position increments
- Fume hood doors—Monitor position to reduce energy waste of HVAC air
- Stow/extend position on remote or mobile equipment—outriggers, boom position, chocks, cylinders
- Safety shower/eyebath activation notification
- Diverter or damper position
- Access doors or gate position—full extend or full close
- Valve position—full open or full close
- Machine table position
- Tray or tote presence or absence

Model	Description	Radio	Inputs	Outputs
DX80N9Q45RDNL-NH	Wireless Q45 Sensor Node	900 MHz	Non-Contact magnetically operated reed NO switch	One four-color LED indicator
DX80N2Q45RDNL-NH		2.4 GHz		