

Hinge Door Position Switch (DPS) Installation and Wiring Instructions

SARGENT
ASSA ABLOY

FOR INSTALLATION ASSISTANCE, CALL SARGENT AT 1-800-810-WIRE (9473) • www.sargentlock.com

CONTENTS

- DPS Magnet - Low Gauss
- DPS Magnet - High Gauss (colored)
- Reed Switch Assembly with Molex connector
- Stainless steel, brass, and bronze colored Plastic Screw Inserts - (2) each
- O-Rings (2) each
- Installation Instructions

NOTE: Hinge is not included in kit.

PRODUCT DESCRIPTION AND FUNCTION

The DPS retrofits existing door hinges with minimal preparation, by replacing one set of opposing center screws on each hinge leaf with fake snap-in screw head holding sleeves (looks like a standard screw head).

- The SPST (Single-Pole-Single-Throw) Magnetic Reed Switch actuates when in proximity of a magnet. Circuit breaks when door is opened.
- Both switch and magnet positions are adjustable within their holding sleeves
- The DPS is UL Listed for up to 3 hours as a field installed fire rated accessory
- The DPS is ElectroLynx compatible

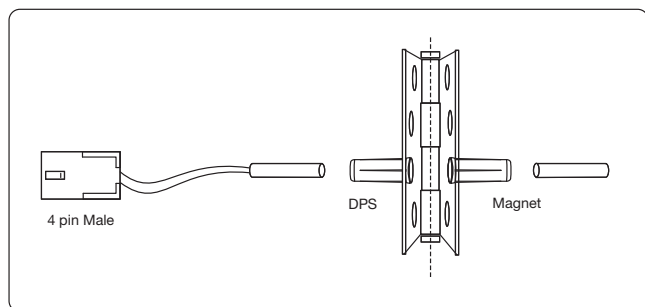
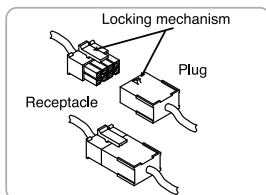
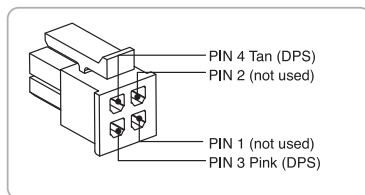
IMPORTANT

1. Caution: Disconnect all input power before servicing.
2. Installer must be a trained, experienced service person.
3. Wiring must comply with applicable local electrical codes, ordinances and regulations.

POWER

Max Switch Voltage: 100 VDC, 100VAC
Max Switch Current: 0.5 A
Max Load Current: 1.0 A
Power Between Contacts: 10W, VA

ELECTROLYNX WIRE LOCATIONS AND POSITIONS



The ElectroLynx wiring system is designed to be installation friendly with quick connectors.

IMPORTANT: ElectroLynx connectors plug and lock together in only one way, as shown.

Do NOT force connectors together.

Reference *ElectroLynx Catalog A7738*.

Use appropriate magnet for application:

- Plain Magnet: Low gauss, for wood frame and door
- Colored Magnet: High gauss, for metal frame and door

Refer to following page for step-by-step installation instructions

Hardwiring Made Easy®



ElectroLynx®

As part of their promise to provide innovative, fast and effective higher security solutions to their customers, ASSA ABLOY Group companies offer ElectroLynx®, a universal quick-connect system that simplifies the electrification of the door opening.

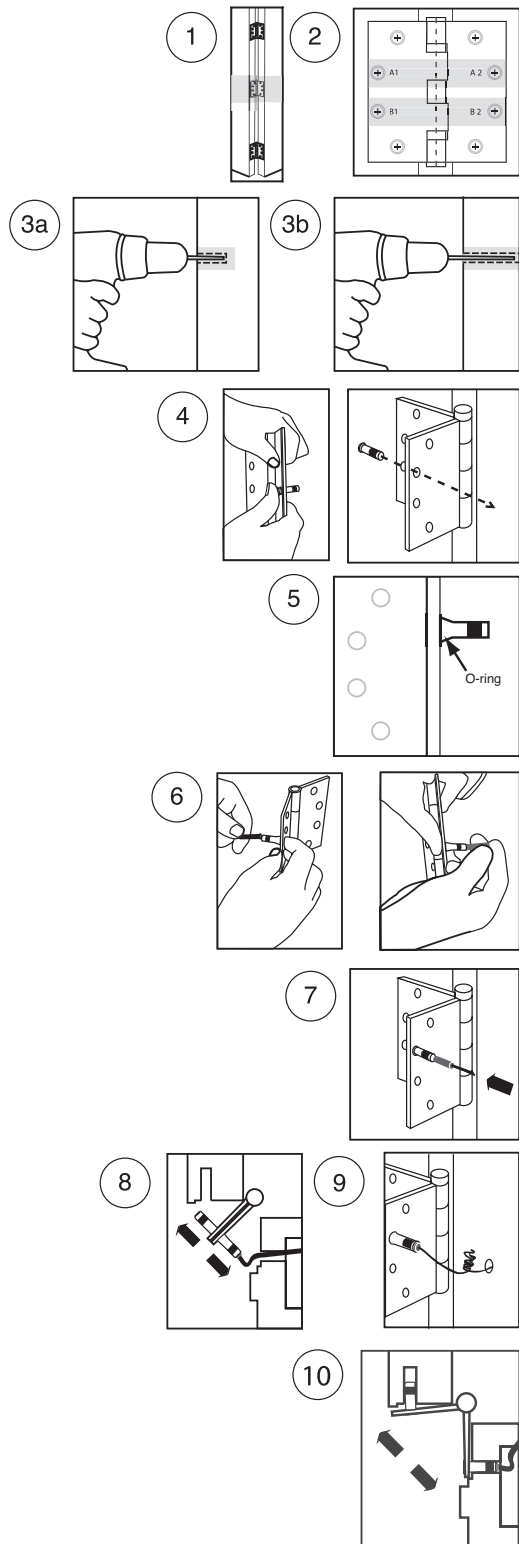
ElectroLynx® is a registered trademark of ASSA ABLOY, Inc.

Hinge Door Position Switch Installation and Wiring Instructions

SARGENT
ASSA ABLOY

FOR INSTALLATION ASSISTANCE, CALL SARGENT AT 1-800-810-WIRE (9473) • www.sargentlock.com

WIRING INSTRUCTIONS



1. The Door Position Switch, DPS, must be installed in the center hinge (non load-bearing hinge) on the door.
NOTE: The DPS can be installed with the door already hung in the frame.
2. To install, select two hinge screw holes farthest away from the hinge pivot, such as holes A1/A2 or B1/B2, the screw holes must be in-line with each other.
- 3a. Drill 5/8" diameter x 1-1/2 inches deep, into the door.
- 3b. Drill 5/8" diameter into the frame in-line with the 5/8" diameter in the door. For metal frames use pre-existing tapped hole for positioning.
NOTE: Deburr all sharp edges to prevent damaging wire insulation and causing a short circuit.
4. Insert plastic sleeves without the magnet or switch into the counter sunk side of the selected hinge holes, A1/A2 or B1/B2 (Figure 2).
5. Using your thumb to hold the plastic sleeve in place, insert an o-ring over each of the sleeves and push them against the hinge (Figure 5).
6. Push the magnet into the sleeve. The o-ring will hold the sleeve against the hinge.
NOTE: For wood doors and frames, use the low gauss (plain) magnet. For steel doors and frames, use the high gauss (colored) magnet.
7. Insert the switch into a sleeve, as shown. The o-ring will hold the sleeve against the hinge.
8. The magnet position might result in greater door travel than desired as measured by the monitoring system in some applications, particularly in wood construction. If this occurs, adjust to the desired leaf angle when switch activates/deactivates by measuring the switch resistance while opening and closing the hinge leaves while pulling out slightly on the switch.
NOTE: If necessary, place tape (not provided) around the diameter of the magnet and the switch where they protrude from the sleeves to hold each in place. Begin adjustment only after both switch and magnet are inserted completely into sleeves.
9. After adjustment, if you are not using connectors, connect switch wires to wires in the frame hole.
Close hinge leaves and position the hinge with the magnet and switch lined up with the 5/8" hole on the door and frame respectively. Open hinge leaves carefully so that the magnet and switch slide unobstructed into the 5/8" screw hole.
10. Install screws in the remaining screw holes to secure hinge onto the door and frame.
NOTE: The DPS switch and Magnet are interchangeable. Either can be located on the door or the frame.