POWER TRANSFER DEVICES

WPT

Wireless Power Transfer Devices

SDC's WPT uses a radio frequency (RF) transmitter to send energy wirelessly across the door gap to a RF receiver that converts the energy to DC voltage - to power electrified locks and latches. Retrofitting electrified locks into openings with existing wood doors is simpler and less time consuming – core drilling the door is not required. Works well with steel doors, too.

Plus, unlike competitive wireless power transfer devices that use magnetic induction for the power transfer, the WPT's RF technology also allows for transfer of latchbolt monitoring, REX or data signals.

The WPT eliminates unsightly, exposed wires across the door gap that are susceptible to vandalism or breakage through use over time and includes a timed trigger to allow for up to 90 seconds of sustained voltage, if required. The WPT transfers power wirelessly across door gaps up to 7mm (a little over ¼"), and provides more tolerance in lining up the transmitter and receiver vertically and horizontally than inductive power transfer devices.

MODELS

WPT Wireless Power Transfer Device

STANDARD FEATURES

- No door core drilling
- RF transmits energy to be converted to DC voltage
- Transfers latchbolt monitoring, REX or data signals
- Request-to-exit (REX)
- Door position status (DPS)
- Latch status (LS)
- Visual status indicator (LED)
- Field selectable dual output voltage
- Flexible installation
- No more broken wires, no moving parts

APPLICATIONS

- Access Control & Monitoring
- Failsecure electrified locks, latches or other door hardware*
- New or retrofit construction
- Latch side, hinge side or top frame mount
- Up to ¼" door gap

* *WPT is for use with failsecure (power to unlock) locks only. Not intended for contunous dogging or failsafe locks.*

WPT Makes Electrified Access Control Retrofits for Compliance Easy

Cylindrical

Z7252 Series

Mortise

Z7852/Z7882 Series

SPECIFICATIONS

	WPT
Input Power (Frame Side)	600 mA @ 24 VDC Continuous
Output Power (Door Side)	600 mA @ 12 VDC 300 mA @ 24 VDC
Maximum Door Gap	¼" (7mm)
Maximum Tolerance*	Horizontal & Vertical < 5⁄64" (2mm)
Dry Inputs (Frame Side)	(1) 4 Second Fixed Timer Door Unlock Trigger (1) 1-90 Seconds Adjustable Door Unlock Trigger
Dry Inputs (Door Side)	(2) Relay Activations for REX, DPS, LS, etc
Dry Outputs (Frame Side)	(2) SPDT, 1 Amp @ 30 VDC Resistive (2) SPST-NO, 100 mA @ 60 VDC Resistive
Operating Environment	-4°F - 140°F
Weight	1 lb

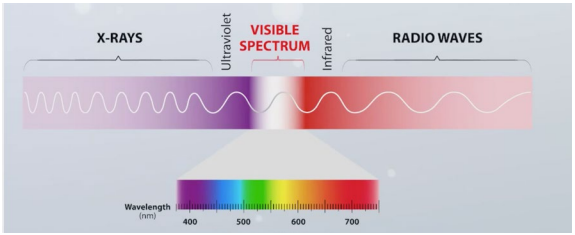
* *Maximum tolerance is defined for 3⁄16" (5mm) door gap.*

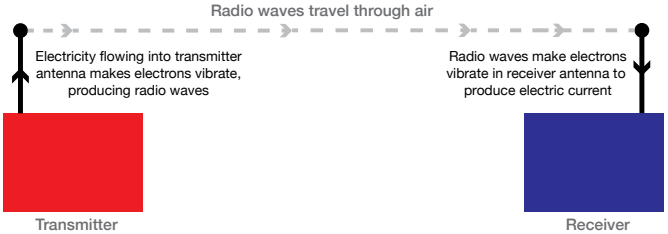
WPT EXPLAINED...

So how is RF wireless charging DIFFERENT from induction? Radio frequency wireless charging technology utilizes radio frequencies to charge a device. While there are several different forms of wireless charging technologies, RF wireless charging is different in that it uses electromagnetic waves, rather than induced magnetic fields (induction).

1. Radio frequency wireless charging differs from magnetic induction first and foremost by the physical character of each technology. Inductive charging uses an electromagnetic field generated by a coil. RF, on the other hand, has a receiver based on electronic circuitry.

2. Induction wireless charging, requires transmitter and receiver for exact alignment or placement for effective charging. RF, on the other hand, is not limited by positioning for effective wireless transfer.





CERTIFICATIONS

UL 10C Positive Pressure Fire Tests, 3hr

UL 1034 Burglary-Resistant Electric Locking Mechanisms

HOW TO ORDER

FOLLOW STEPS FOR ORDERING

Designates optional step

1| SPECIFY MODEL

WPT Wireless Power Transfer Device

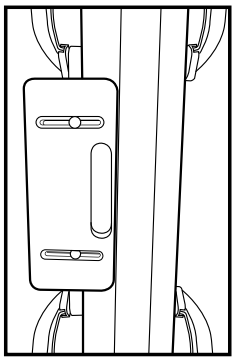
STEP NUMBER:	1
ORDERING EXAMPLE:	**WPT**

RELATED PRODUCTS

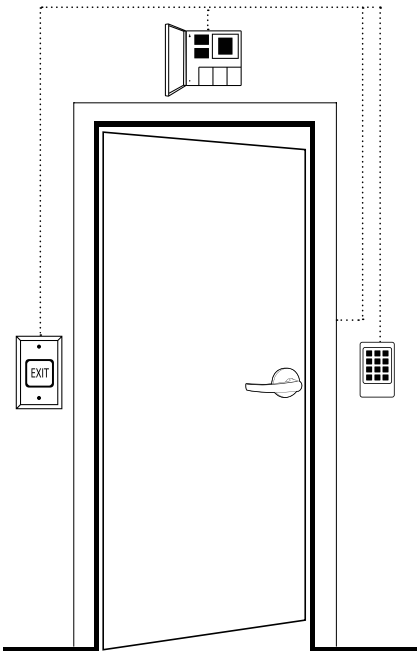
DRILL JIG FOR WPT

The **WPT drill jig** assembly provides an economical method preparation for particle filled or solid wood doors to accommodate the installation of the wireless power transfer device.

SDC paired with JustDoorToolz to provide a perfect sized jig for the WPT installation (part# **SDC-WPT**), sold at **www.JustDoorToolz.com**.



COMPONENT CONSIDERATIONS



ELECTRIFIED LOCKSETS

CLICK TO VIEW

SDC electrified locksets are building and fire life safety code compliant for fire rated office, corridor, lobby, exit and stairwell doors. HiTower®, Selectric® and Electra™ locksets provide locking and latching features for fire rated doors that meet security needs and fire life safety code requirements. Whether failsafe or failsecure, controlled access and remote-control capability is provided while the door stays latched even when unlocked, maintaining fire door integrity.

KEYPADS & READERS

CLICK TO VIEW

SDC has a variety of digital keypad and proximity card access control systems equipment to meet any need. SDC's access control keypads & readers are engineered to provide real-world door control of a single opening up to 100 doors, as indoor, outdoor, and PC-based systems, while ensuring fire and life safety code compliance along with superior expandability and flexibility in authorization identification, authentication, access approval, and accountability of entities through login credentials.

EXIT SWITCHES & SENSORS

CLICK TO VIEW

SDC offers a variety of exit button and push button styles and contact configurations to fit several request-to-exit application needs. Additionally, SDC's wave-to-open switches and motion sensors provide hands free compliance and convenience for touchless applications using proven infrared detection technology. A simple wave of the hand in front of our touchless switch models activates the switch to control electric locks/strikes, magnetic locks, or automatic door operators for entry or egress.

POWER CONTROLLERS

CLICK TO VIEW

SDC access control power supplies have been developed specifically to support access controls and electric locking hardware. They are UL listed and provide filtered and regulated linear DC power, with optional control logic, component interface, alarm interface and battery back-up to meet the requirements of single and multiple access-controlled openings. The circuitry design is ideal for the inductive loads generated by access control hardware for high performance and longevity.