infrastructure
protection

TZ SlideHandle™

TZ SlideHandle™
Installation Guides

Models: 4267CF, 4271CF, 4272CF

TZ SlideHandle™ is an intelligent locking device that offers a retrofittable replacement for traditional manual swing-handle data center cabinet locks. Designed to be installed onto a broad range of cabinets and enclosures, the device leverages its embedded micro-processing, integrated sensing and switching capability to offer the next generation of electronic locking.

TZ SlideHandle™ is powered and controlled using either RS485 serial data communications or dry contact closure via standard UTP Cat5e/Cat6 cabling through a TZ Praetorian™ Junction or TZ Centurion™ Bridge. TZ SlideHandle™ can also be direct connected to standard access control or dry contact closure systems.

Features

> Simple surface mounted installation on outside of door.

> Fits most cabinet brands.

> Connects to control system using RJ45 and Cat5e/6 cabling. Complies with TIA/EIA requirements.

> Mechanism provides industry standard one quarter turn action for single and multipoint systems.

> SMA actuated locking mechanism.

> Defaults to locked when power is removed and incorporates a manual key release.

> Visual LED status indication.

> Multiple sensors for door status (locked/closed, unlocked/closed, unlocked/open, locked/open).

Benefits

> Surface mount design retrofits existing manually keyed cabinet handle latching systems to enable integrated electronic access, monitoring and recording of all access events.

> Mounting hardware which is suitable for industry standard 25mm wide openings eliminating need for on-site door modifications. Can also be face mounted.

> By utilising RJ-45 based twisted pair cabling infrastructure which means up to threetimes more cost-effective implementation.

> Compatible with single-point and multi-point latching as well as split French doors.

> No magnetic emmissions eliminates the risk of damaging magnetic storage systems.

> Maintains the integrity of the cabinet security but also allows authorised personell to over-ride the system in an emergency.

> Visible up to 30m indictates locked / ready to unlock / unlocked doors.

> Provides real time monitoring of events, can raise alarms for unauthorised access and provides a complete audit trail to meet compliance requirements.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.   page 1 of 43

Specifications Overview

Specifications subject to change to suit particular application requirements.

Physical and Mountings

> Dims (mm): 182.3mm tall (207.3mm when open), 43.5mm wide, 35.9mm out from door, 21.2mm in from door

> Dims (inches): 7.17" tall (8.16" when open), 1.71" wide, 1.41" out from door, 0.83" in from door

> Mounting:

  via 2 x M4 (#8) screws and clamp piece.

  Mounts to doors with standard 25mm x 150mm (5.9" x 1") or 25mm x 125mm (4.9" x 1") opening (with or without center of cutout blanked).

  5mm max door panel thickness

> Grip dimensions of 3mm to 24mm can be accommodated with standard spacers and locking cams. Contact TZ for specific application requirements

Environmental and Performance

> Operating temperature: -15°C to +55°C (5°F to 131°F).

> Survival temperature: -55°C to +85°C (-67°F to +185°F).

> Humidity (operating): 95% RH at 50°C (122°F).

> Operating cycles: MTTF > 125,000.

> Ingress protection: IP 51.

Electrical

> Supply voltage: 9.0 – 32.0 VDC.

> Power consumption (operating): < 3.5 W average.

> Power consumption (standby): < 400 mW.

> RJ-45 pin-out: 1: +Coms | 2: -Coms | 3: AUX-OUT1, 4: AUX-IN1 | 5: Gnd | 6: AUX-OUT2 | 7: AUX-IN2 | 8: +V.

> RS485 coms for communication with TZ control systems.

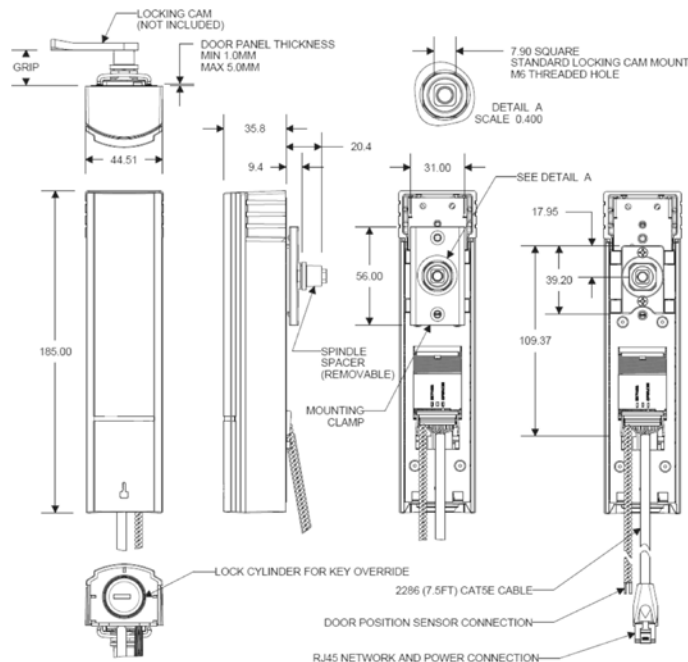> Closing contact operation for connection to Dry Contact systems.

Standards Compliance

> FCC Part 15, CE, UL (c-us) per IEC/UL/CSA 60950-1.

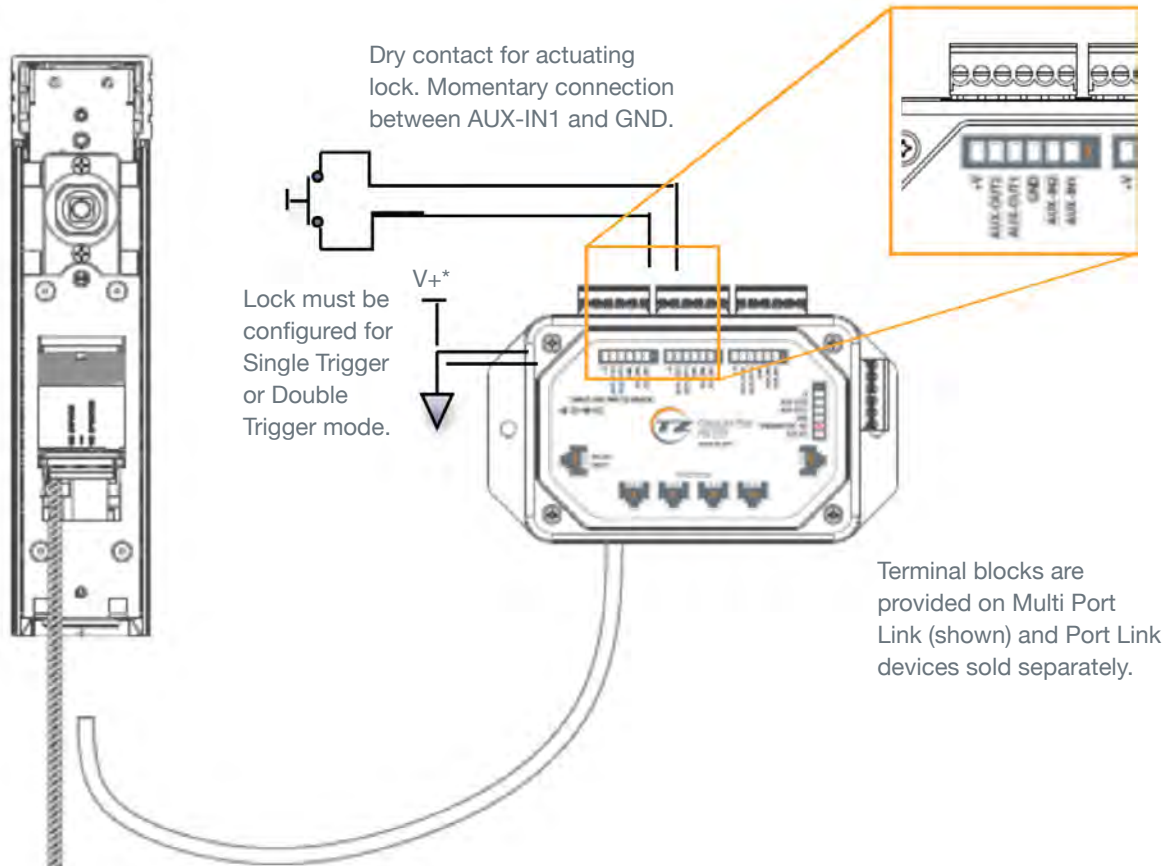> RoHS compliant

> One Year Limited Warranty.

Dimensions (mm)

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.

page 2 of 43

Specifications Overview

Specifications subject to change to suit particular application requirements.

Dry contact for actuating lock. Momentary connection between AUX-IN1 and GND.

Lock must be configured for Single Trigger or Double Trigger mode.

V+*

Terminal blocks are provided on Multi Port Link (shown) and Port Link devices sold separately.

*Power may be plugged directly into the provided jack (Multi Port only), via CAT-5 connection, or directly to the terminal block.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.

page 3 of 43

TZ SlideHandle™ is powered and controlled using either RS485 serial data communications or dry contact closure via standard UTP Cat5e/Cat6 cabling through a TZ Praetorian™ Junction or TZ Centurion™ Bridge. TZ SlideHandle™ can also be direct connected to standard access control or dry contact closure systems.

Features

> Simple surface mounted installation on outside of door.

> Fits most cabinet brands.

> Connects to control system using RJ45 and Cat5e/6 cabling. Complies with TIA/EIA requirements.

> Mechanism provides industry standard one quarter turn action for single and multipoint systems.

> SMA actuated locking mechanism.

> Defaults to locked when power is removed and incorporates a manual key release.

> Visual LED status indication.

> Multiple sensors for door status (locked/closed, unlocked/ closed, unlocked/open, locked/open).

Benefits

> Surface mount design retrofits existing manually keyed cabinet handle latching systems to enable integrated electronic access, monitoring and recording of all access events.

> Mounting hardware which is suitable for industry standard 25mm wide openings eliminating need for on-site door modifications. Can also be face mounted.

> By utilising RJ-45 based twisted pair cabling infrastructure which means up to threetimes more cost-effective implementation.

> Compatible with single-point and multi-point latching as well as split French doors.

> No magnetic emmissions eliminates the risk of damaging magnetic storage systems.

> Maintains the integrity of the cabinet security but also allows authorised personell to over-ride the system in an emergency.

> Visible up to 30m indictates locked / ready to unlock / unlocked doors.

> Provides real time monitoring of events, can raise alarms for unauthorised access and provides a complete audit trail to meet compliance requirements.

Models: 4267CF, 4271CF, 4272CF

Installation Instructions

1a

1b

2 STANDARD DOOR CUTOUTS

#2

M4 X 8

2X
M4 X 14

Door Panel

NON-STANDARD CUTOUTS

7 mm

2X

2X
M4 X 10

**Mounting Plate
(included with
optional mounting kit)**

If necessary, drill holes in
door to match template on
reverse side of this sheet

3 10mm

M6 X 20

4 RJ45

If necessary, remove RJ45 plug,
route cable through door, and
crimp on a new plug

Pin	Pair	Wire	Color	
1	2	1		white & orange
2	2	2		orange
3	3	1		white & green
4	1	2		blue
5	1	1		white & blue
6	3	2		green
7	4	1		white & brown
8	4	2		brown

5 2X

WIRE FROM SLIDEHANDLE

CRIMP

SENSOR WIRE
(NO POLARITY)

< 0.25 inch
(6mm)

**Note: sensor and magnet
placement is critical for proper
operation of this product**

Drill here
Ø 3/16 inch hole
(Ø 4.5mm hole)

Spindle
Center

minimum
Ø 3/4 inch
(Ø 19.0 mm)

(often existing
hole, check fit
before drilling)

4 inches
(101.6 mm)

SCALE 1:1
When printing this document,
check dimensions to make sure
figure has not been inadvertently
scaled.

5 1/2 inches
(139.7 mm)

Drill here

Ø 9/16 inch hole
(for grommet and cable with
plug)

Alternate existing holes can also be
used if grommet is not required.

Dri...
Ø 3/16 inch hole
(Ø 4.5mm hole)

Supplemental Instructions for Wrightline Paramount Cabinets.

SINGLE DOOR (FRONT)
TZ SlideHandle™ 112479.04
Mounting Kit 112466.01

1
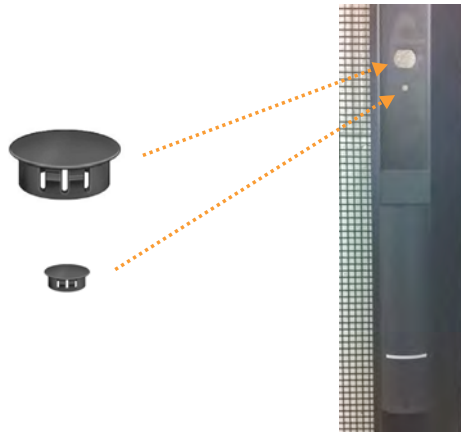
2

Locked

> Mount TZ SlideHandle™ and Plate to door, following instructions provided with handle.

> Install plugs supplied in Mounting Kit to cover exposed holes in door.
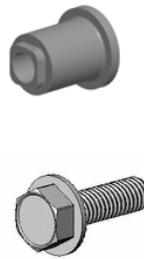
> Re-use single point locking cam that was on cabinet with new Spacer 112339.07 supplied in Mounting Kit.

> Use M6 x 20 serrated flange screw to fix the Locking Cam.

SPLIT DOOR (REAR)
TZ SlideHandle™ 112479.08
Mounting Kit 112474.01

1
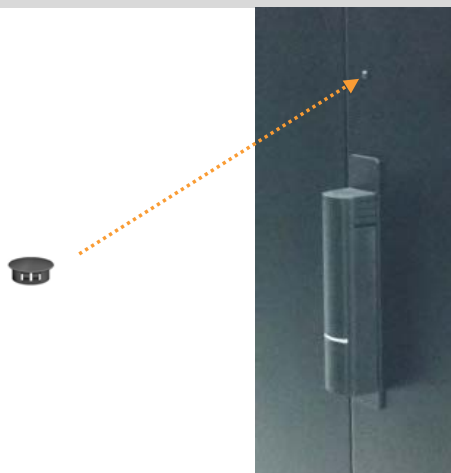
2

Unlocked

> Mount TZ SlideHandle™ and Plate to door, following instructions provided with handle.

> Install plug supplied in Mounting Kit to cover exposed hole in door.

> Rotate door mechanism 90 degrees counter-clockwise from unlocked position and install additional Locking Cam 112486.01 with Spacer 112339.07 and M6 x 25 hex head cap screw supplied in Mounting Kit.

> Locking Cam (silver outline) should be in position shown above when the TZ SlideHandle™ is unlocked.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.   page 7 of 43

Models: 4267CF, 4271CF, 4272CF

Installation Instructions

Instrucciones de instalación | Installationsanleitung

#2

RJ45

1

2 3X
M4 X 10

3 If necessary, remove RJ45 plug, route cable through door, and crimp on a new plug.

Pin	Pair	Wire	Color	
1	2	1		white & orange
2	2	2		orange
3	3	1		white & green
4	1	2		blue
5	1	1		white & blue
6	3	2		green
7	4	1		white & brown
8	4	2		brown

7mm

4 Route cable throu gh recess of the mounting plate to ensure the unit sits flush to door.

5 Insert handle rack prongs into corresponding slots based on left or right opening door.
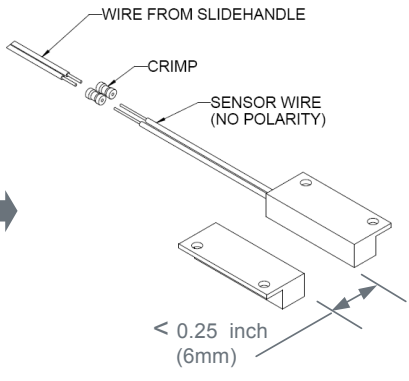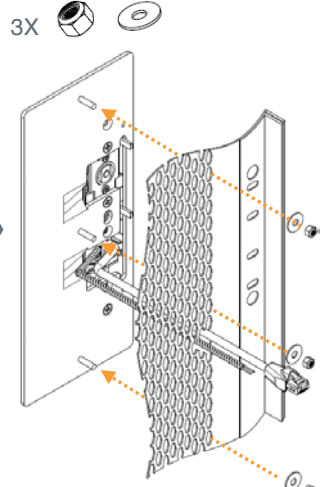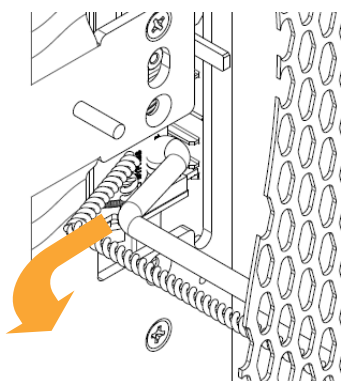
3X

6 2X

WIRE FROM SLIDEHANDLE

CRIMP

SENSOR WIRE (NO POLARITY)

< 0.25 inch (6mm)

Note: sensor and magnet placement is critical for proper operation of this product.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.

page 8 of 43

3X 58,500
[2.30]

Drill here
Ø 3/16 inch hole
(Ø 4.5mm hole)

94,500
[3.72]

LEFT HINGED DOOR

SCALE 1:1
Do not scale when printing.

Place on outside of door.

Filled grey shapes represent
existing cutouts for standard
Rittal handles.

19,500
[.77]

Drill here
Ø 3/16 inch hole
(Ø 4.5mm hole)

46,00
[1.81]

133,500
[5.26]

41,00
[1.61]

Drill here either …

Ø 1/4 inch hole
(for cable only)

or …

Ø 9/16 inch hole
(for cable with plug)

Drill here
Ø 3/16 inch hole
(Ø 4.5mm hole)

3X 58,50
[2.30]

94,50
[3.72]

Drill here
Ø 3/16 inch hole
(Ø 4.5mm hole)

RIGHT HINGED DOOR

SCALE 1:1
Do not scale when printing.

Place on outside of door.

Filled grey shapes represent
existing cutouts for standard
Rittal handles.

19,50
[.77]

46,00
[1.81]

Drill here
Ø 3/16 inch hole
(Ø 4.5mm hole)

41,00
[1.61]

Drill here either …

Ø 1/4 inch hole
(for cable only)

or …
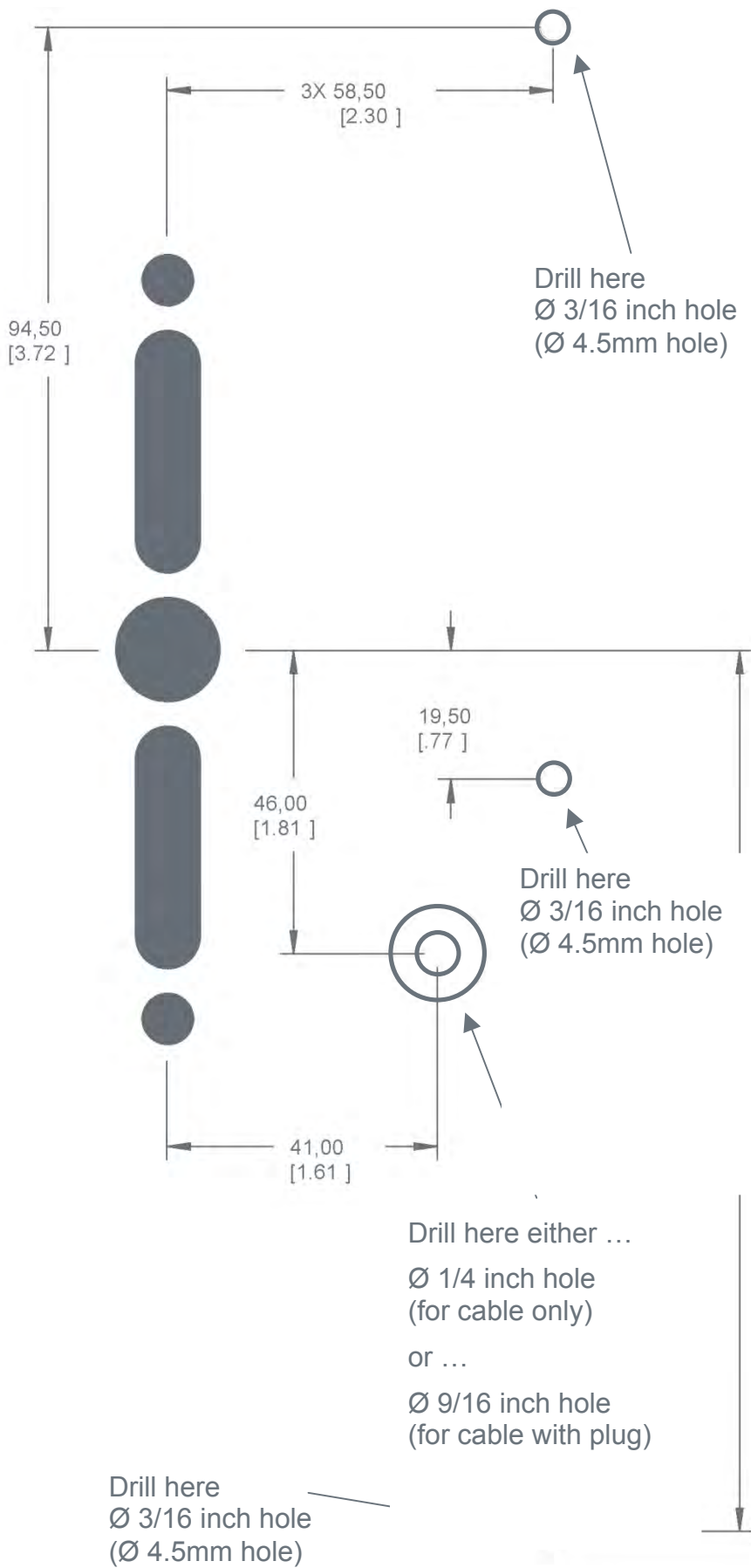
Ø 9/16 inch hole
(for cable with plug)

Drill here
Ø 3/16 inch hole
(Ø 4.5mm hole)

Supplemental Installation Instructions for HP 10000 Series G2 Split Door.

Required Tools

> Drill template (last page of these instructions)
> Step drill bit capable of drilling 3/4 inch hole
> Drill bit set with 4.5mm [3/16inch] bit
> #2 phillips screwdriver
> Wire crimpers
> 10mm nut driver or socket

#2

1 TOP

2X
Ø4.5 mm
[3/16 inch]

Ø4.5 mm
[3/16 inch]

Ø17.5 mm
[11/16 inch]

BOTTOM

2

2X M4x10

3
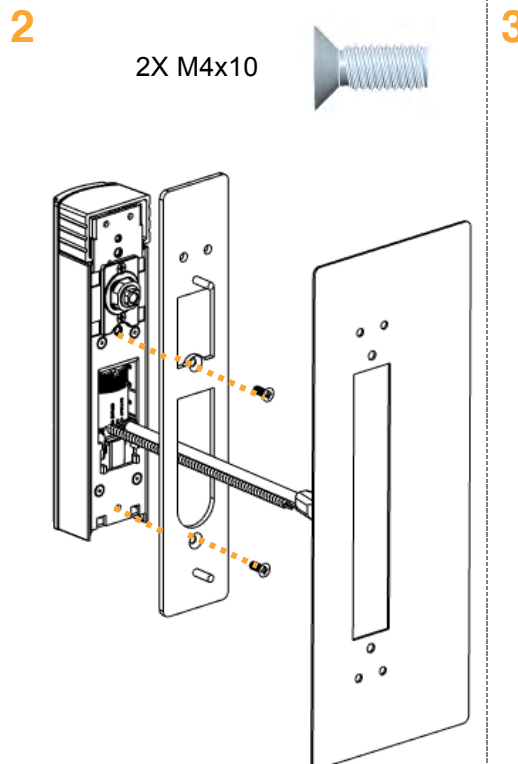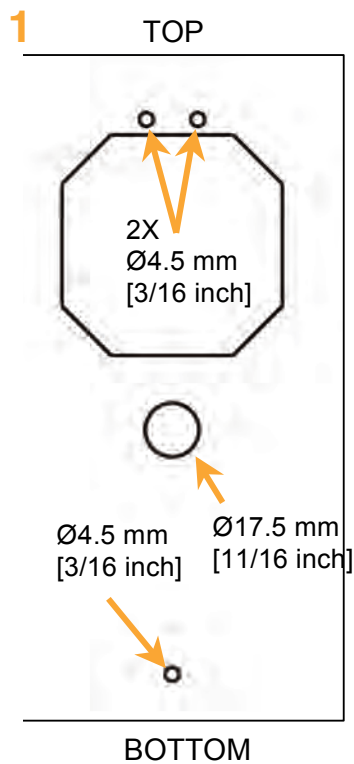
Remove existing handle. Use the drill template to drill the three Ø4.5mm holes and the larger clearance hole for the cable.

Attach the mounting plate to the TZ SlideHandle™. Place the larger cover plate onto the back of the mounting plate. Run the cable through the plate openings.

Install the grommet over both the sensor wires and the Cat5 cable of the TZ SlideHandle™. Feed cables through the center clearance hole and install the grommet into the hole.

⊕ #2

4 2X M4x10

5

6
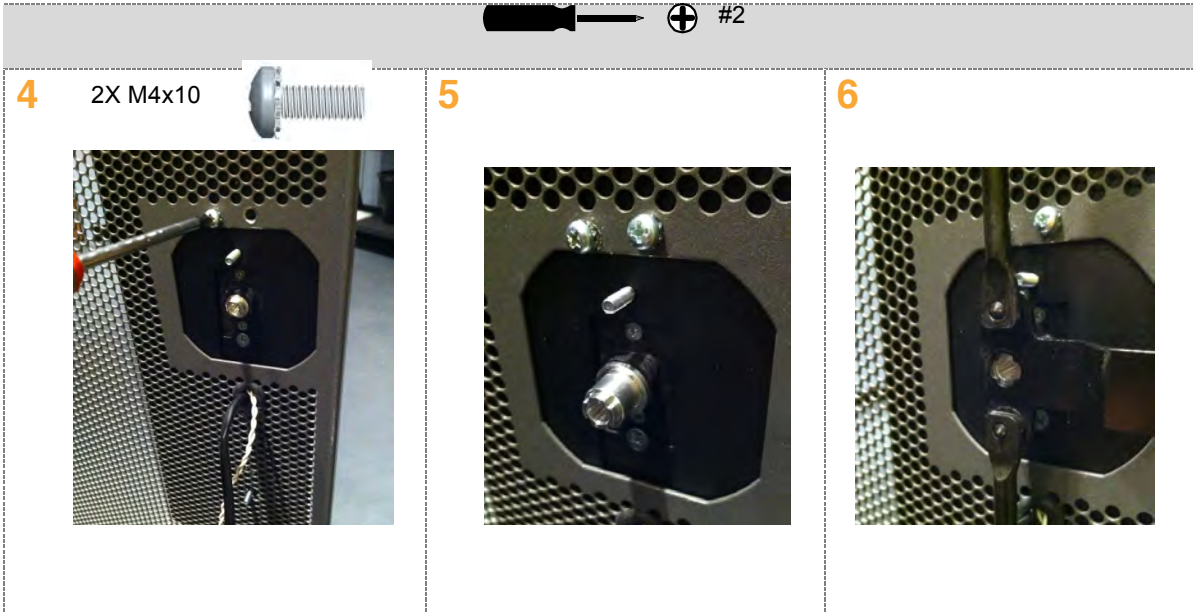
Secure the TZ SlideHandle™ to the door using 2 M4x10 screws with attached serrated washers into the top two holes and the M4 washer and M4 locknut over the bottom threaded stud.

Install the Spacer onto the TZ SlideHandle.

Ensure the handle is closed and locked. Place the previously removed Locking Cam and control arms onto the Spacer with the Cam facing away from the door hinges.

⬡ 10mm

7

8 M6 x 20

9

No Polarity
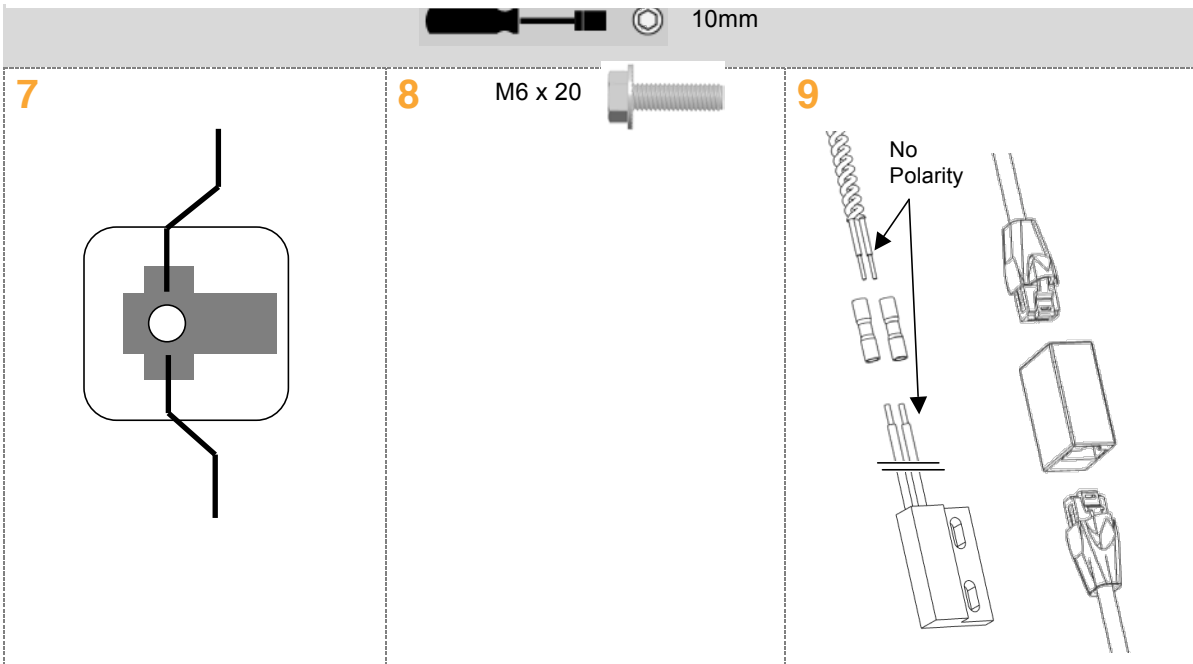
The two control arms should be oriented as illustrated above.

Install the previously removed Control Arm Cover Plate using the provided M6x20 screw.

Attach the sensor wire using the included butt splice connectors. Connect the network cable to the sidehandle using the included RJ45 Coupler. Secure all cabling as needed.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.   page 12 of 43

DO NOT SCALE
ALWAYS PRINT 1:1 WITH NO SCALING
Dimensions in mm [inches]

16,70
[.657]

DRILL HERE:
Ø 4,50
[.177]

DRILL HERE:
Ø 4,50
[.177]

40,80
[1.606]

60,00
[2.362]

2X 71,78
[2.826]

REF

101,60
[4.000]

180,02
[7.087]

DRILL ONE OF THESE TWO LOCATIONS
TO MATCH CABLE EXIT LOCATION
OF HANDLE
17.46MM [.687 IN]

DRILL HERE:
Ø 4,50
[.177]

Supplemental Installation Instructions for HP 10000 Series G2 Single Door.

Required Tools

> #2 Phillips screwdriver
> Wire crimpers
> T25 torx bit

T25   #2   #2

1

Remove the existing handle by removing the two M5 screws on the back of the door. The locking rail may need to be moved to access the screws. Save the screws.

2

6X M3 x 6
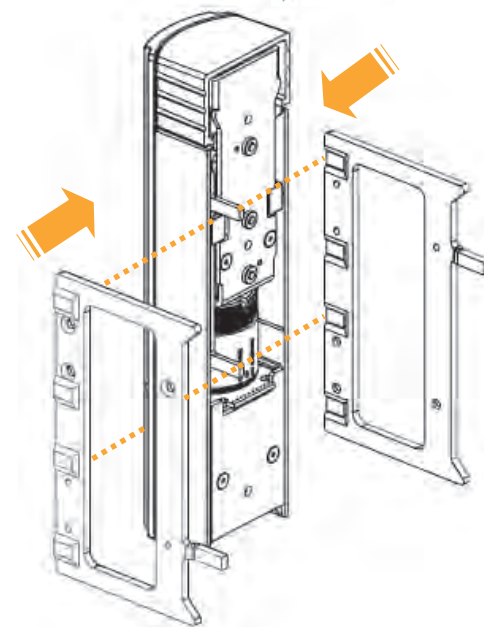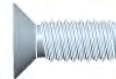
Install the two extender parts onto the locked TZ SlideHandle™ as shown. Tighten into place with the six M3x6 screws.

3

2X M4 x 8
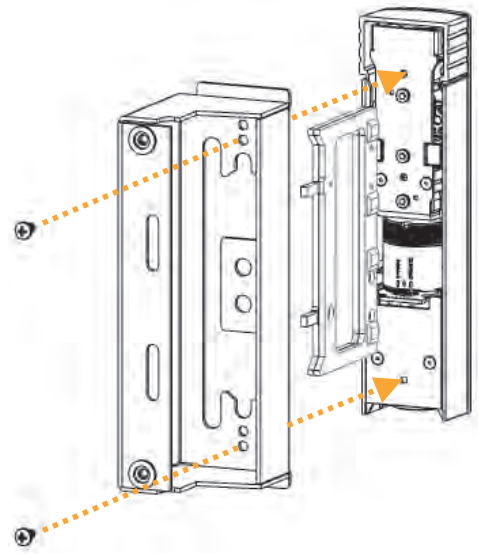
Install the mounting plate to the TZ SlideHandle™. Use the two lower holes in the mounting plate.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.

page 14 of 43
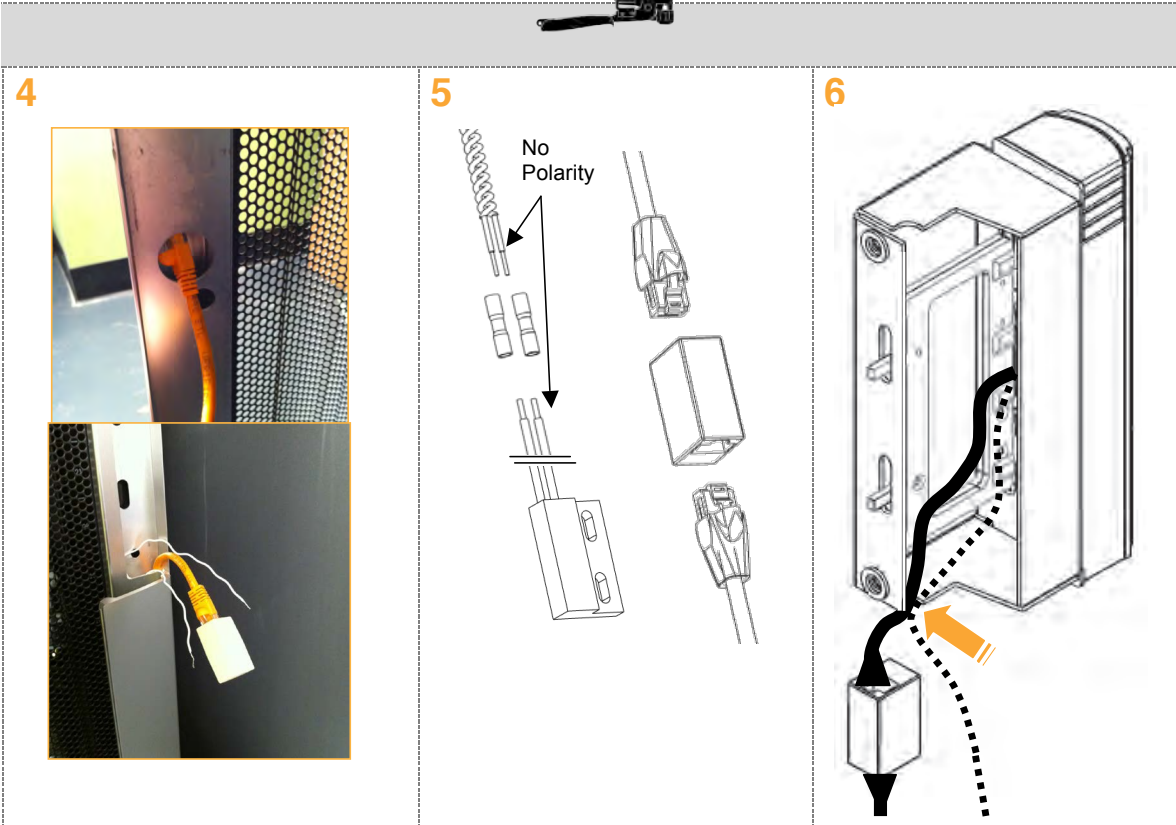
4

Run the patch cable and Door Sensor wires up through the door by pushing it into the hole approximately half way up the door. The cables should appear where the original handle was.

5

No Polarity

Attach the sensor wire using the included butt splice connectors. Connect the network cable to the sidehandle using the included RJ45 Coupler. Fix all cabling as appropriate.

6

Tuck the slidehandle Cat5 cable and twisted sensor wires into the notch at the bottom of the mounting plate, leaving the RJ45 Coupler outside.

T25
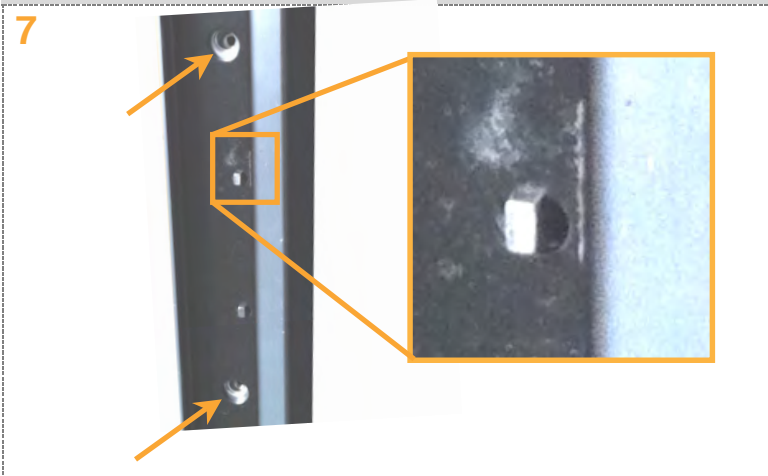
7

Insert the two prongs of the assembly into the two holes in the locking rail as shown. Secure the handle assembly to the door using the two previously removed M5 screws.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.

page 15 of 43

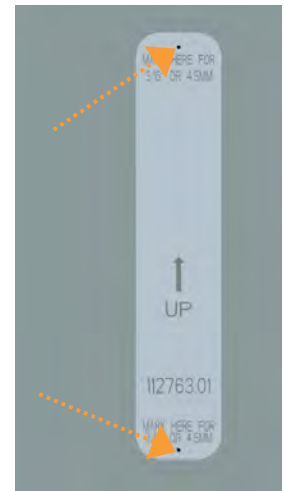## Supplemental Instructions for IBM Cabinets.

SINGLE DOOR (FRONT)
TZ SlideHandle™ 112479.04
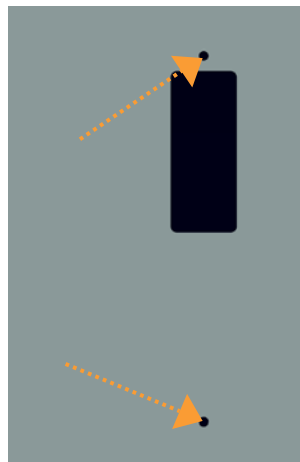Mounting Kit 112765.01, Drill Jig 112762.01

1

Remove the original handle by removing the single screw clamping the handle to the door. Discard the attached bent sheet metal bracket. The door cutout will be exposed.
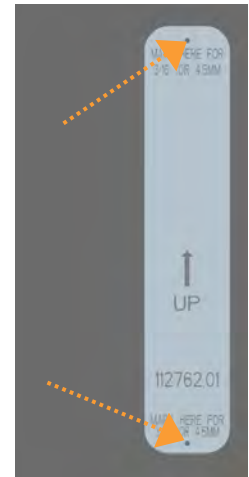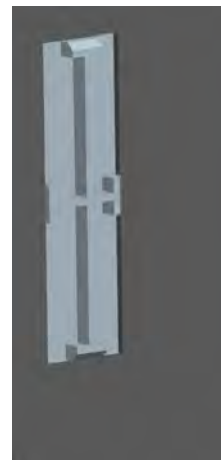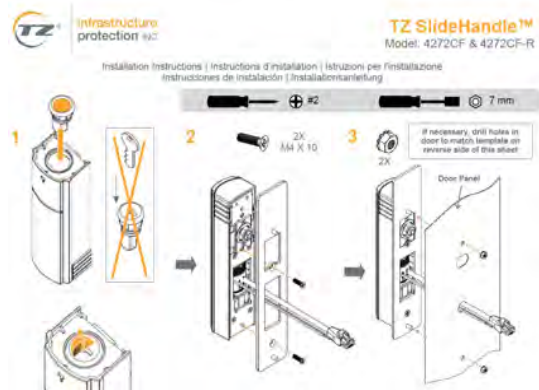
2

Place the drill jig on the front of the door and fit the alignment features into the door cutout. Mark the top and bottom hole locations.

3

Drill 3/16" or 4.5mm holes at the marked locations. Note that cable will route through main cutout and does not need a separate hole.

4
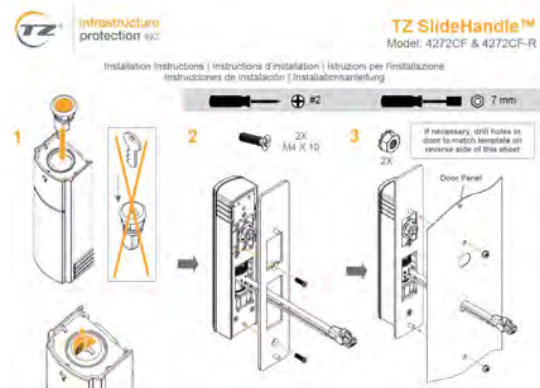
Follow the included standard TZ SlideHandle™ installation instructions, document number 112455.01, ignoring the paper drill template and using the metal cam in mounting kit 112765.01.

Supplemental Instructions for Hitachi VSP Cabinets.

SINGLE DOOR (FRONT)
TZ SlideHandle™ 112479.04
Mounting Kit 112766.01, Drill Jig 112763.01

1

Remove the original handle by removing the single screw clamping the handle to the door. The door cutout will be exposed.

2

Place the drill jig on the front of the door and fit the alignment features into the door cutout. Mark the top and bottom hole locations.

3

Drill 3/16" or 4.5mm holes at the marked locations. Note that cable will route through main cutout and does not need a separate hole.

4

Follow the included standard TZ SlideHandle™ installation instructions, document number 112455.01, ignoring the paper drill template and using the metal cam in mounting kit 112766.01.

Supplemental Instructions for Hitachi AMS2500H5 Cabinets.

SINGLE DOOR (FRONT)
TZ SlideHandle™ 112479.04
Mounting Kit 112767.01, Drill Jig 112764.01

1

Remove the original handle by removing the single screw clamping the handle to the door. The door cutout will be exposed.
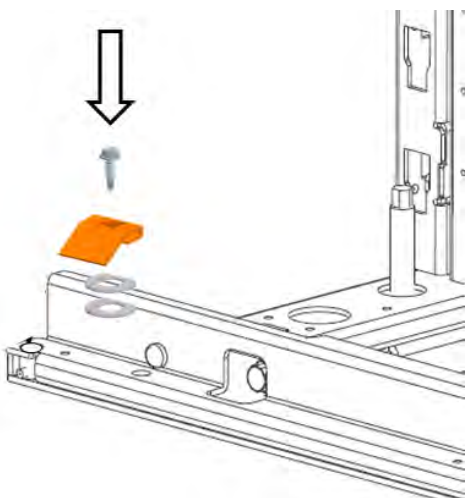
2
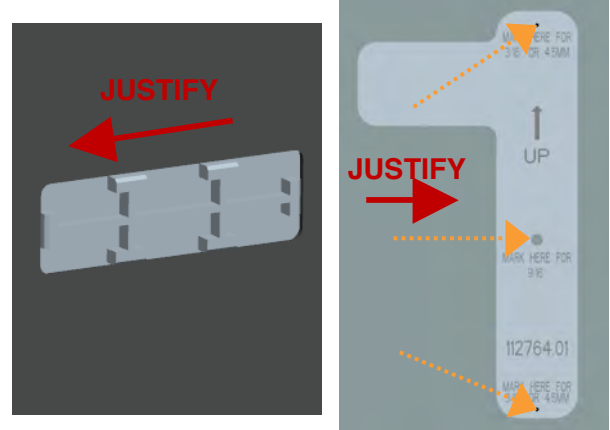
Place drill jig on front of door and fit alignment features into cutout. When facing the door, justify the jig as far to the right as possible. In justified position, mark top, cable, and bottom hole locations. It may be easier to mark the holes when looking at the inside of the door due to the mesh.

3
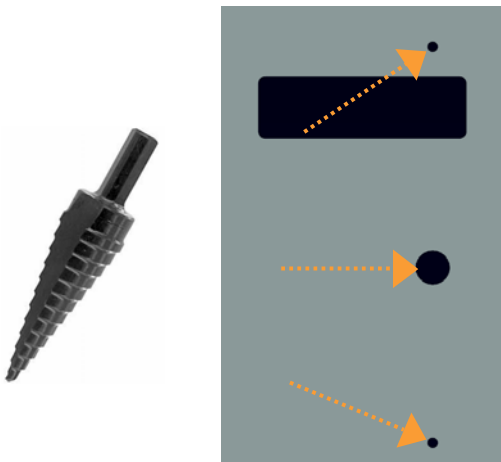
Drill 3/16" and 9/16" holes at the marked locations. A stepper bit is recommended for widening mesh holes to the appropriate diameter.

4
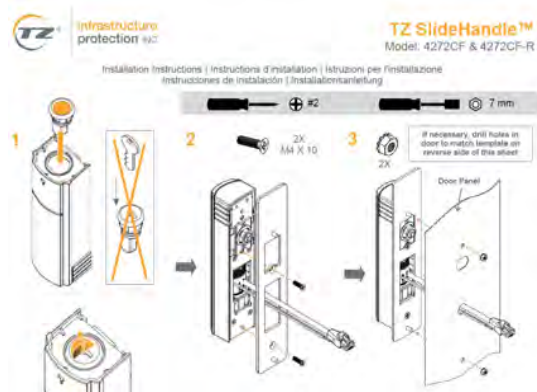
Follow the included standard TZ SlideHandle™ installation instructions, document number 112455.01, ignoring the paper drill template and using the metal cam and blanking plate in mounting kit 112767.01.
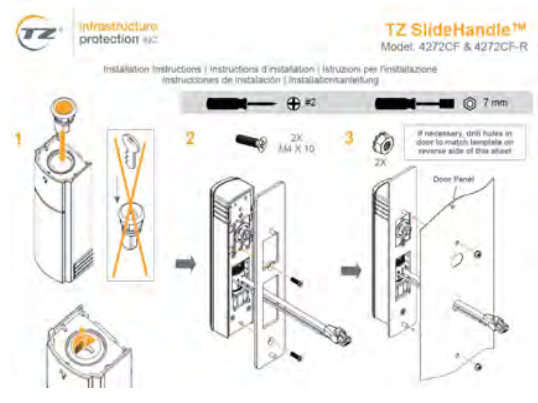
A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.
page 18 of 43

Supplemental Instructions for Panduit Net Access Dual Hinge Door Cabinets.

TZ SlideHandle™ 112479.04 or 112479.08
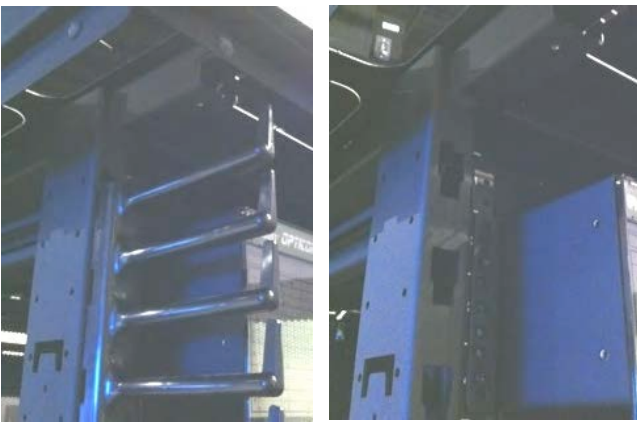Mounting Kit 112642.01 (Cable Management for Dual Hinge Doors)
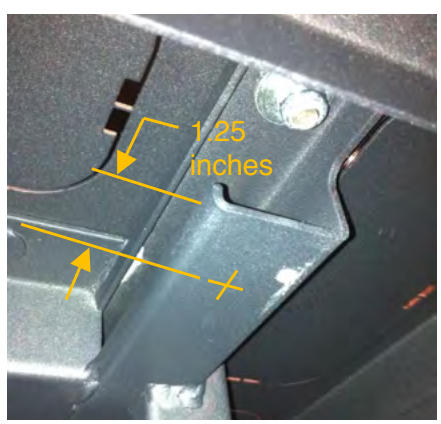
1

Use the provided shims and 'D' washers to lift the door until both top and bottom locking bars are engaging equally – this will reduce the force required to operate the TZ SlideHandle™. Fix the shim into place with the self drilling screw

2

If you also are installing the cable management articulating arm, continue with these instructions before consulting the standard TZ SlideHandle™ instructions, 112455.01.
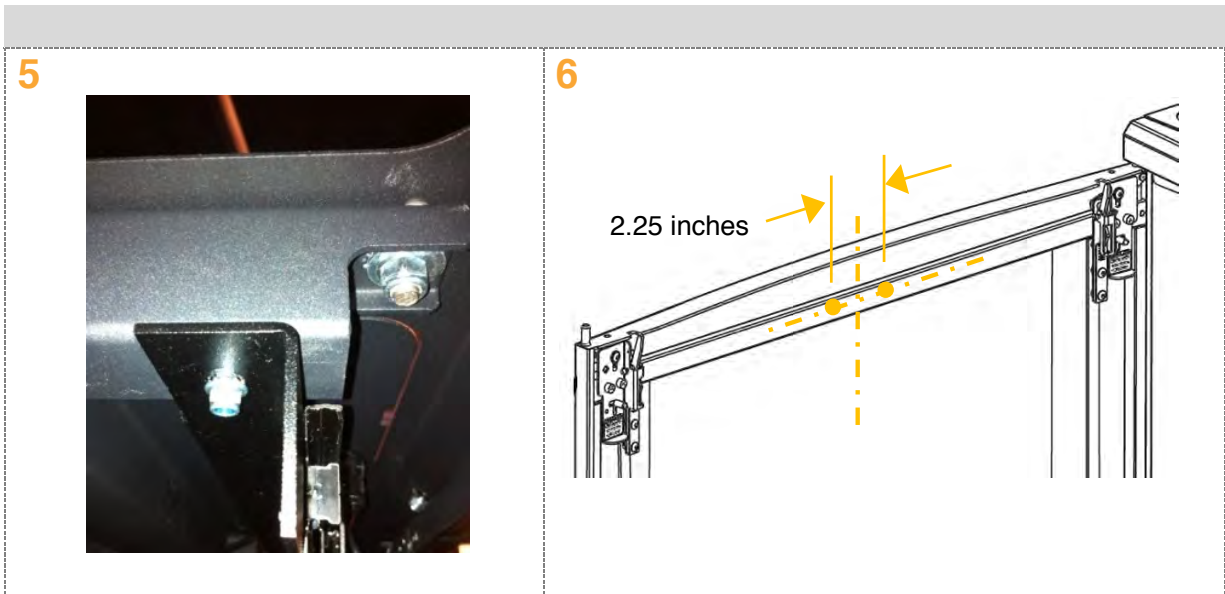
3

If present, remove the two plastic cable management arms from the top of the cabinet (one on the left, one on the right).

4

Drill two 5.5mm (.217 inch) diameter holes into the two 'C' channels at the top of the cabinet. The holes should be 20.5 inches apart and 1.25 inches from the front edge of each channel.

5

Install the cable management articulating arm using the provided two M5 x 12 bolts, two serrated washers and two locknuts. The washers should be placed under the bolt head.

6

2.25 inches

Drill two 5.5mm (.217 inch) diameter holes into the top-most cross bar of the cabinet door, 2.25 inches apart. These holes should be both horizontally and vertically centered on the bar and drilled completely through the rectangular cross section of the bar.

7
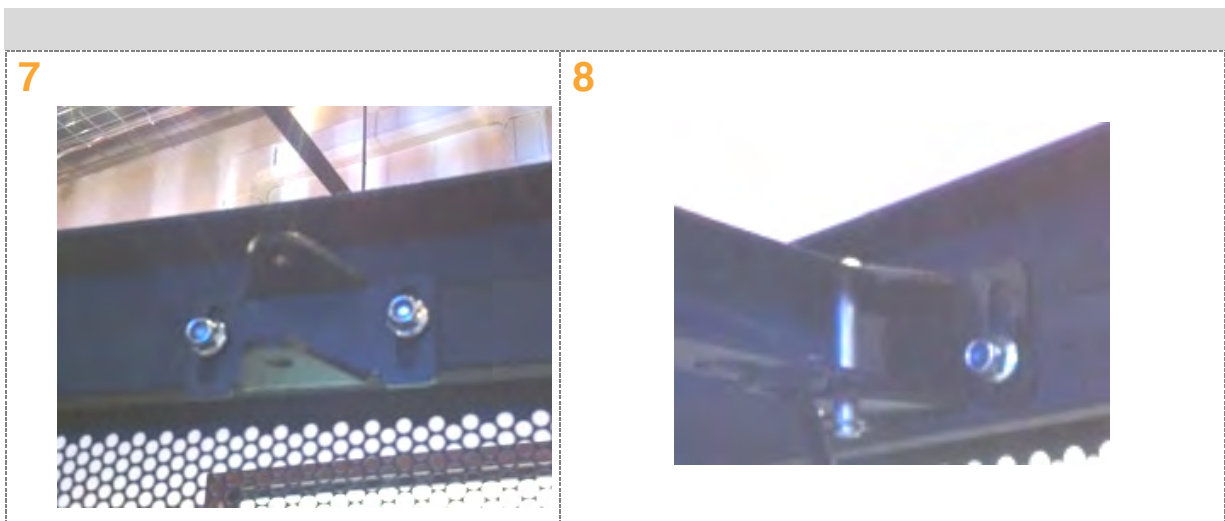
Insert the two M5 x 22 bolts with serrated washers from the back side of the cross bar. Attach the Door Bracket with two locknuts on the front. Leave loose until the next step is complete.

8

Connect the articulating arm to the Door Bracket using the provided cotter pin and e-ring. Place the e-ring on the underside of the Door Bracket. Adjust the Door Bracket vertically to position the articulating arm as horizotal as possible.
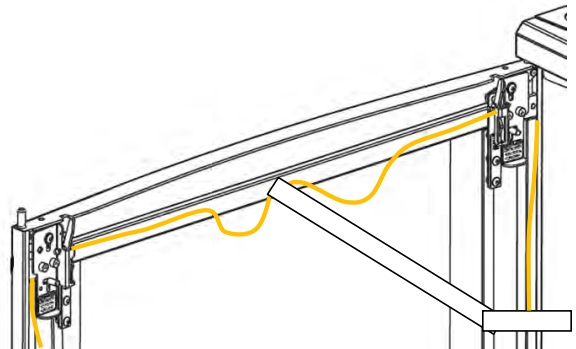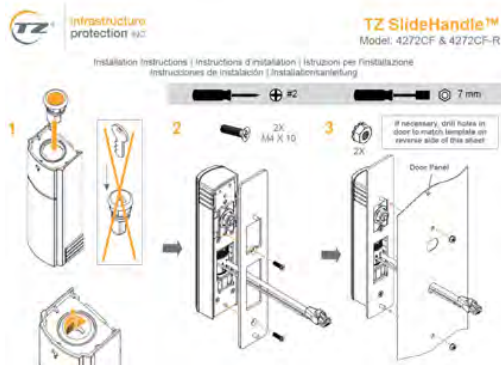
9

Put one of the included grommets over each Cat5 cable that will connect to the TZ SlideHandle™. Insert the cables through the two holes of the articulating arm and connect to the RJ45 couplers. Push both grommets into the holes to protect the cables.

10

Fix the cables to the cable door as appropriate with short service loops on either side of the Door Bracket.
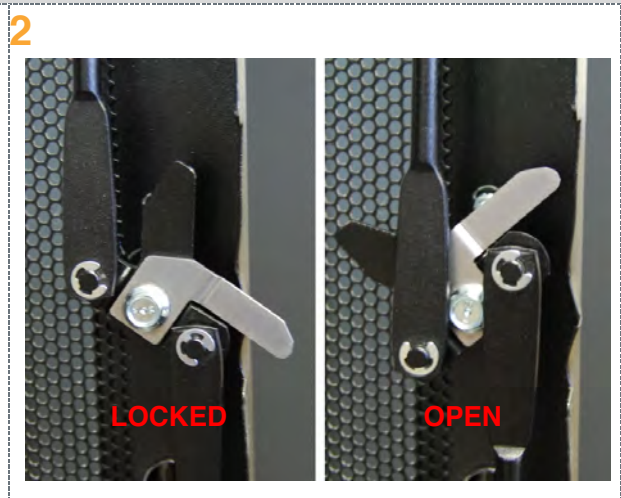
11

Follow the included standard TZ SlideHandle™ installation instructions, document number 112455.01, to complete installation of the TZ SlideHandles into the door.

## Supplemental Instructions for Wrightline Vantage S2 Cabinet.

Dual Point (Rear)
TZ SlideHandle™ 112479.04 (for right-hinge door), Mounting Kit 112827.01

1

After installing the SlideHandle per the standard instructions, fix the spacer onto the SlideHandle spindle, fit the cam for the locking bar on top of the shorter of the two spacers provided, and put the additional cam on top as shown. Secure with the 20mm, serrated flange screw.

2

LOCKED   OPEN

The images above demonstrates how the finished assembly should look in the locked and open states. Use provided plastic plugs to cover any exposed holes.

Single Point (Front)
TZ SlideHandle™ 112479.04 (for right-hinge door), Mounting Kit 112827.01
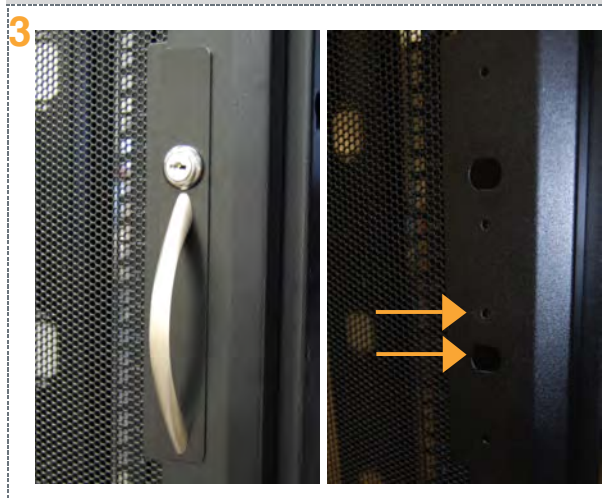
3

After removing the existing lock and pull handle, align the standard SlideHandle mounting template on the bottom large hole. Mark and drill the necessary holes. The small hole indicated above may need to be enlarged to 5/16" to fit the SlideHandle mounting bracket properly.

4

Mount the SlideHandle per the standard instructions. Reuse the cam that was attached to the existing mechanism with the longer of the two spacers provided. Use the provided plastic plugs to cover any exposed holes.

Supplemental Instructions for Cabinets with Swinghandle-Mounted Gearbox Mechanisms.

NOTE: Parts called out here are those not in TZ SlideHandle™ box. Parts from mounting kit take priority where similar parts are present in both.
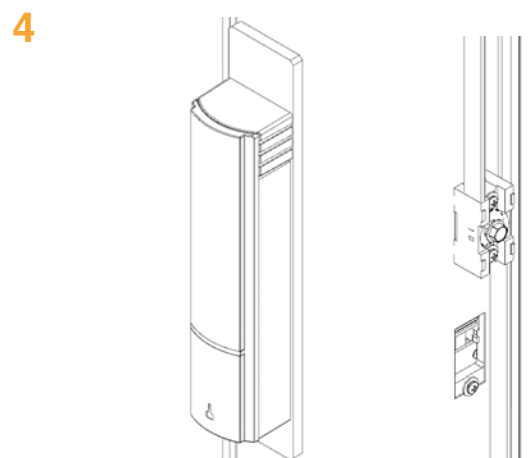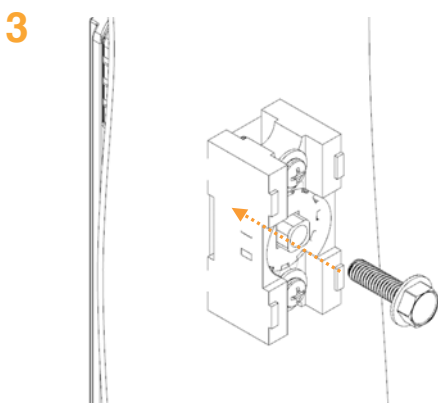
TZ SlideHandle™ 112479.04 or 112479.08	Mounting Kit 112733.01

1
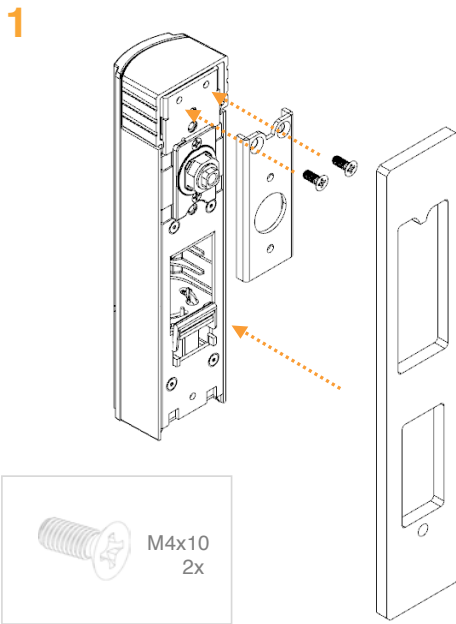
M4x10
2x

Mount plate to TZ SlideHandle™ with two M4 x 10 mm screws from mounting kit -- do NOT use the longer screws from TZ SlideHandle™ box. Place spacer block over TZ SlideHandle™ as shown. Install M6x20mm screw into spindle.

2
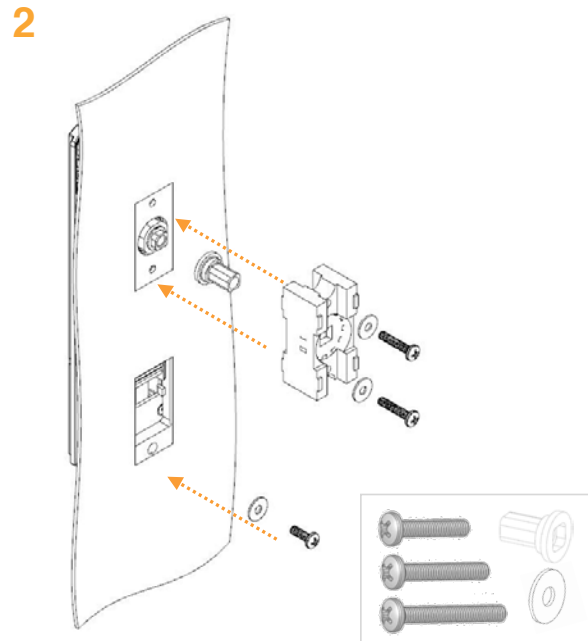
Place long spacer from mounting kit onto TZ SlideHandle™ spindle and mount gearbox mechanism to mounting plate. Screws must not bottom out on part underneath plate! Start with the shortest screw provided (20mm), and use longer screws (25 and 30mm) only if needed. Several washers are provided in case they are needed to achieve the correct height. Install M4x12mm screw and washer into lower hole.
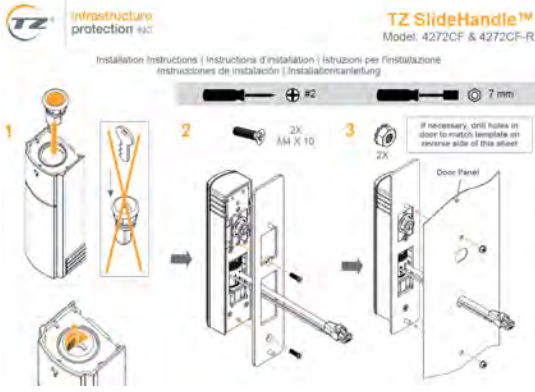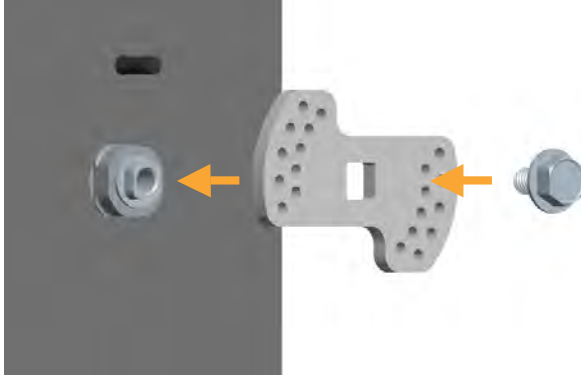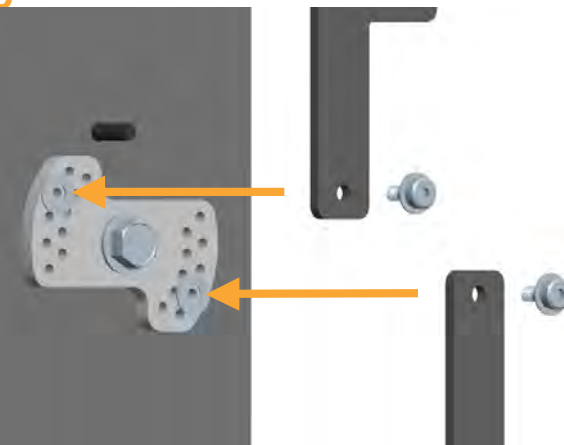
3

4

Supplemental Instructions for Dual Point Mechanism w/ Flat Locking Bars.

Dual Point
TZ SlideHandle™ 112479.04 (for right-hinge door), Mounting Kit 112886.01

1

Ø 1/2"
(12.7mm)

Ø 1/2"
(12.7mm)

Door, Inside   Door, Outside

Dimensions Per Template Except Where Noted

Install the TZ SlideHandle per the standard install guide. For thick doors, the drill template must also be used on the inside of the door to mark and drill holes. Inner mounting plate holes must be ½" (12.7mm) diameter to allow space to install M4 mounting nuts.

2

Install the dual point bracket onto the SlideHandle mounting square as shown with the standard spacer and secure it with the M6 x 20mm serrated flange screw. The bracket is provided in the 112886.01 kit and the screw and spacer are included with the TZ SlideHandle.

3

Choose the necessary mounting hole for the locking bars based on the travel needed. Secure the locking bars as shown reusing the thick spacers from the original assembly along with the large fender washers and #6 screws from the 112886.01 kit.

4

After tightening the screws, the locking bars should move freely. Move the locking bars to different holes if more or less travel is needed. If mechanism movement is tight, remove the relief springs and plastic pads from the guides at the top and bottom of the door.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.   page 24 of 43

Supplemental Instructions for Dual Point Mechanism w/ Flat Locking Bars.

Dual Point
TZ SlideHandle™ 112479.04 (for right-hinge door), Mounting Kit 112886.01

1

Install the TZ SlideHandle per the standard guide.

2

Install the dual point bracket onto the SlideHandle mounting square and secure it with the included M6 x 10mm serrated flange screw.

3

Choose the necessary mounting hole for the locking bars based on the travel needed. Secure the locking bars to the dual point bracket using the shoulder screw with a plastic washer on either side of the bar as shown.

4

The shoulder screws tighten down on the dual point bracket, and the locking bars should move freely on the shoulder. Move the locking bars to different holes if more or less travel is needed.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.   page 25 of 43

**infrastructure
protection**

Supplemental Installation Instructions for HP 10000 Series G1 Single Door.

Mounting kit 112640.01

Required Tools

> #2 Phillips screwdriver, #1 Phillips screwdriver
> Wire crimpers
> Drill bits as needed to route cables

#2

1

2

3

3X M4x10

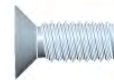Remove original handle from door with two screws and save them. Place slider into plate as shown.

Feeding wires carefully through as shown, install TZ SlideHandle™ onto plate. Pins on handle should go into slider.
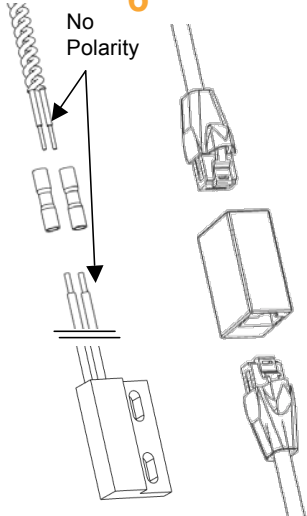
Install three screws to mount TZ SlideHandle™ to plate.

Torx T25   #2

4

Carefully fish the wire into the door and Install TZ SlideHandle™ onto door and secure using two screws saved.

5 2X M5x16

Install the Spacer onto the TZ SlideHandle.

6

No Polarity

Ensure the handle is closed and locked. Place the previously removed Locking Cam and control arms onto the Spacer with the Cam facing away from the door hinges.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.   page 27 of 43

Supplemental Installation Instructions for Dirak External Rack Swing Handle.
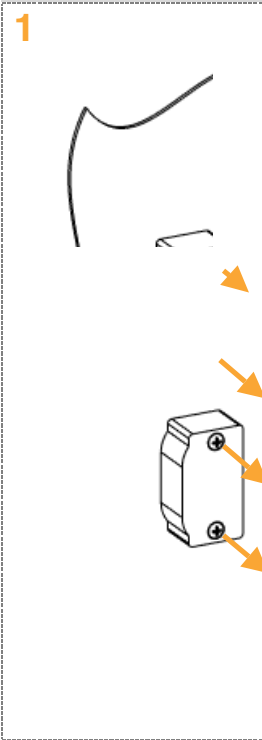
Required Tools

> #2 Phillips screwdriver
> 10mm socket
> Wire crimpers

#2   10mm

1
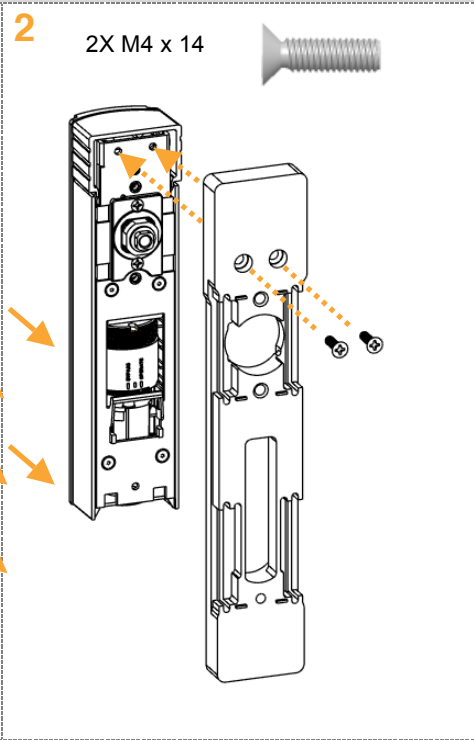
2 2X M4 x 14

3 M6 x 10

1 Remove the existing handle by removing the six screws on the back of the door. Discard the M6 screw and Gear. Save all the other parts.
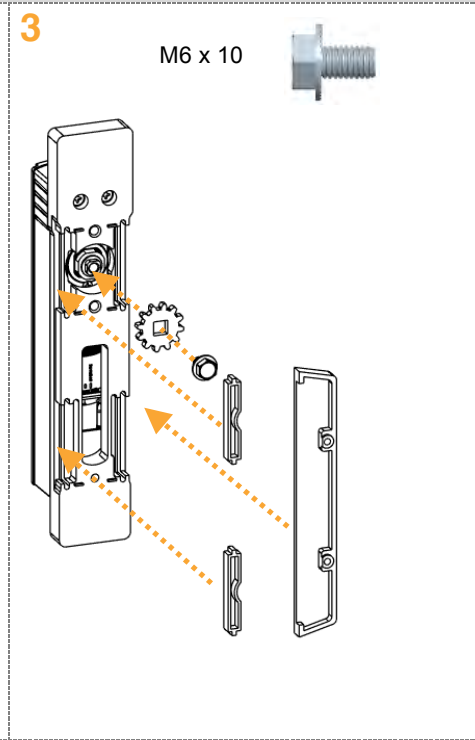
2 Install the Mounting Block to the TZ SlideHandle using the two flat head screws.

3 Ensure the TZ SlideHandle is in the locked position. Install the new Gear with the supplied M6 screw. Place the three plastic cover pieces into place based on the door's left or right hinge location.

Models: 4267CF, 4271CF, 4272CF

#2

4

5

2X M4 x 40

M4 x 20

M4

Previously
Removed
M4 Hardware

6

No
Polarity
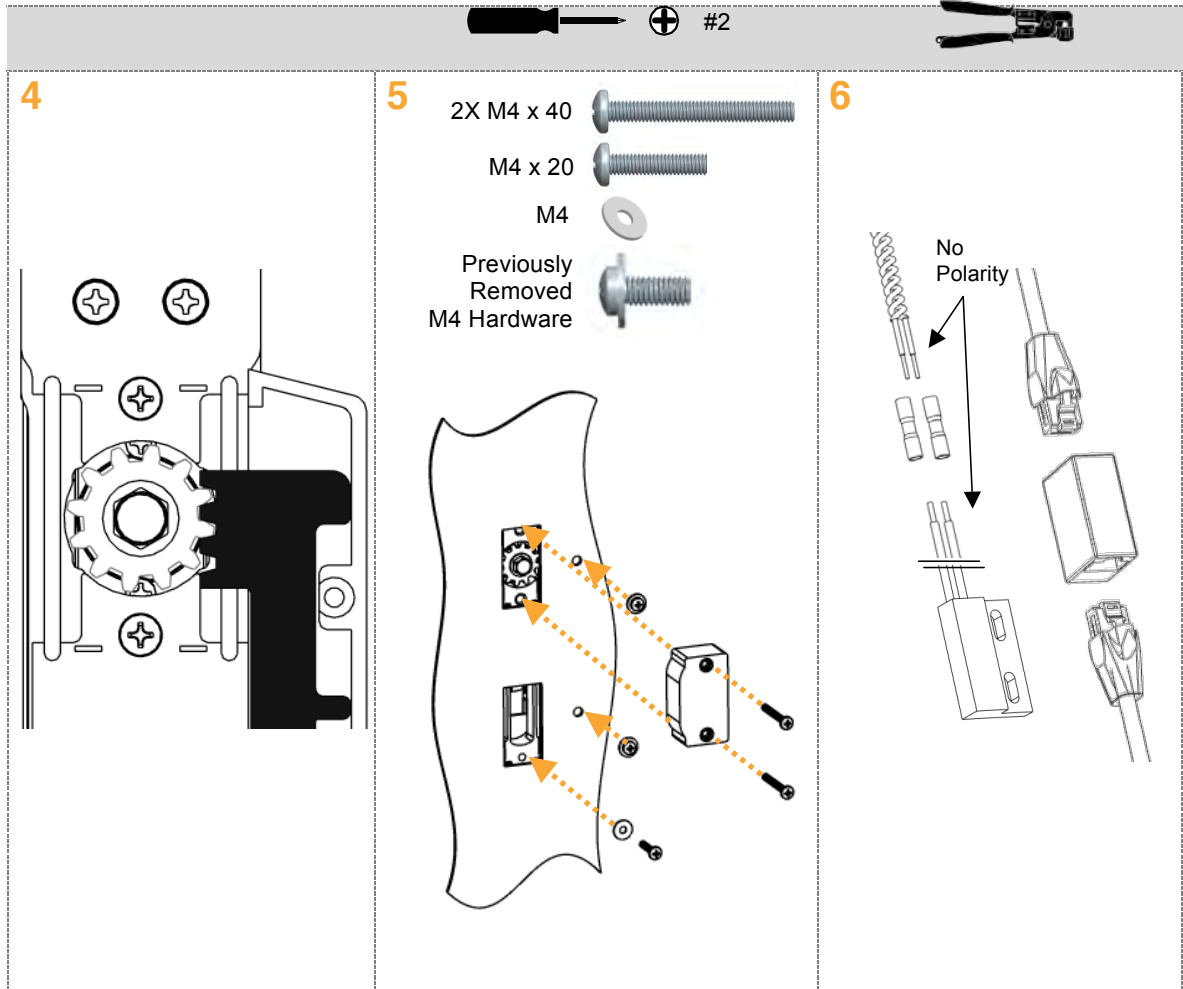
The above image shows the Gear, Rack and TZ SlideHandle in the locked position. Align the teeth of the Gear and Rack as shown. If excessive force is required when locking, move the Rack up one tooth.

Fix the TZ SlideHandle to the door using the provided M4 x 40 screws, the M4 x 20 screw with washer, and the previously removed M4 hardware.

Crimp the sensor wires to the twisted wires on the TZ SlideHandle. Connect the network cable to the handle with the RJ45 Coupler.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.   page 29 of 43

Supplemental Installation Instructions for HP 10000 Series G1 Split Door.

Required Tools

> #2 Phillips screwdriver, #1 Phillips screwdriver
> Wire crimpers
> Step drill bit, 1/4" to 11/16"

#2

1

Remove existing handle by removing two screws. Temporarily place a piece of tape around door mechanism spindle to prevent it from coming apart. Remove existing spacer piece, taking care not to let rack and pinion mechanism come apart. Save the screw. Install supplied spacer onto rack and pinion mechanism with original screw. (installing the spacer will prevent the mechanism from coming

2

Using drill template, carefully mark and drill holes indicated. Use a stepped drill bit to enlarge lower most hole to 9/16" or 11/16" as needed to clear cable housing. It may be easier or preferable to remove door before drilling

3

Attach plate supplied in mounting kit to SlideHandle with screws provided. You must use the shorter 10mm screws provided in the mounting kit, not the 14mm screws that come with the SlideHandle.

Torx T25   #2

4

5

2X M5x16

6

No Polarity

Unlock SlideHandle and place door mechanism into unlocked state (bars closest together) as shown.
If square cutout on coupler does not appear to be perpendicular, rotate mechanism toward the locked position, the least amount possible to make the cutout perpendicular.
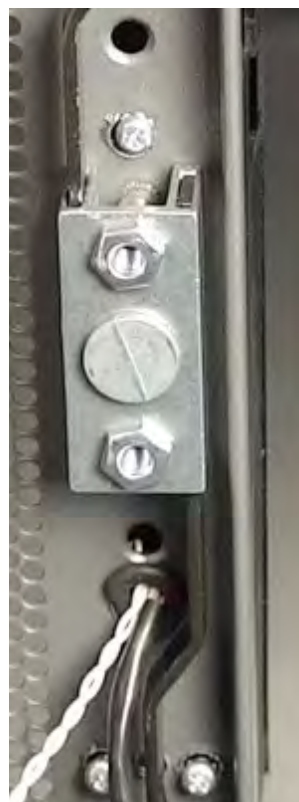
Place SlideHandle on door, inserting SlideHandle spindle into coupler. Ensure wires are cleanly inserted and not kinked, and grommet is installed in door. Mounting plate will sit flush on door when properly mounted.
Install three screws provided with mounting kit to secure SlideHandle to door.
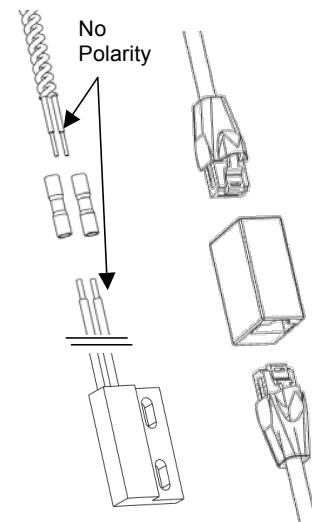
Attach the sensor wire using the included butt splice connectors. Connect the network cable to the sidehandle using the included RJ45 Coupler. Secure all cabling as needed.

DRILL HERE
CLEARANCE FOR
4MM SCREW

38-1/2
[1-1/2]

Drill hole 4.5mm or
3/16" diameter

66-11/16
[2-5/8]

DRILL HERE
9/16" HOLE

111-1/2
[4-3/8]

20
[13/16]

DRILL HERE (2x)
CLEARANCE FOR
4MM SCREW

Drill holes 4.5mm
or 3/16" diameter
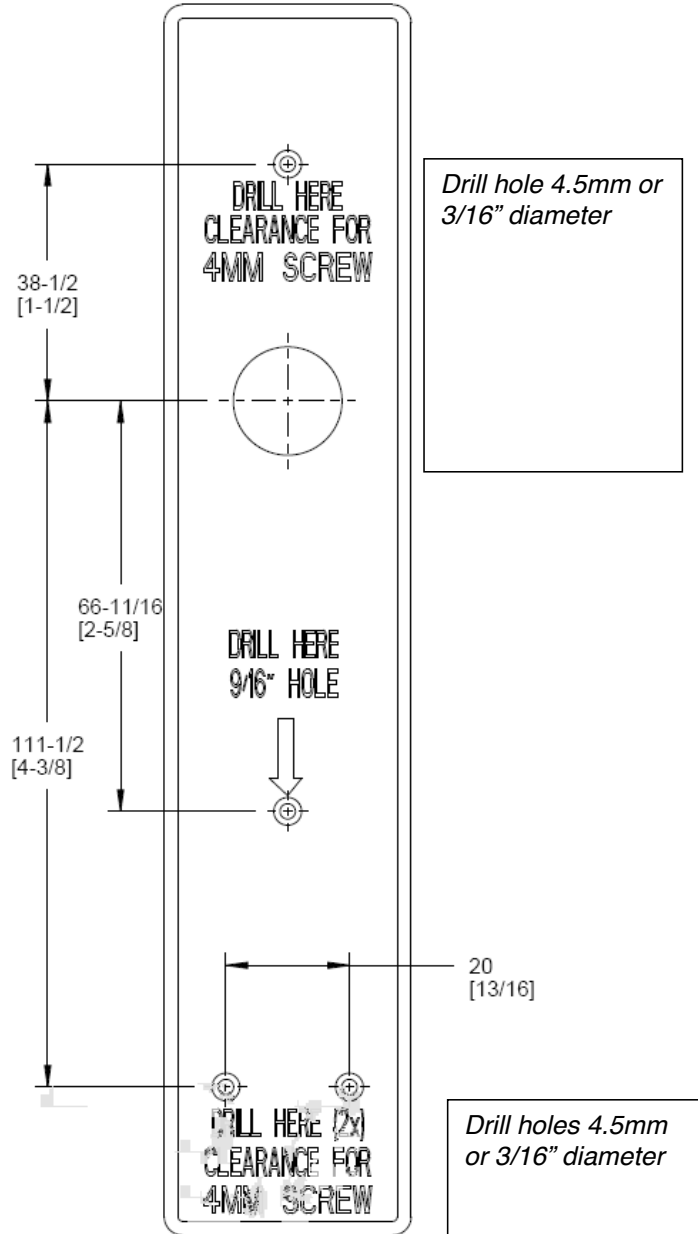
UNITS: MM [

TEMPLATE MUST BE PRINTED 100% SIZE (NO SCALING)

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.

page 32 of 43

Supplemental Instructions for Rittal Legacy Gearbox Kit.

Dual Point
TZ SlideHandle™ 112479.04 (for right-hinge door), Mounting Kit 112927.01

1

Attach the SlideHandle to the mounting block using the two M4 x 14mm screws in the standard accessory kit. Ensure that you are using the right side of the mounting block. The flat head screws will sit flush in the countersinks.

2

Remove the existing mechanism, but leave the gearbox attached to the cabinet. Save the gearbox cover plate. Locking bars not shown for clarity.

3

Using the drill template provided with this kit, align the spindle centers and drill the appropriate holes. Place the SlideHandle and bracket onto the cabinet ensuring the spacer is on the spindle and placed through the hole in the gearbox.

4

Secure the SlideHandle with the M4 x 8mm screws and M4 washers and put the new gear into place on the spacer square. Replace the gearbox cover, and secure it with the M4 x 25mm screw. Add the square hole washer if necessary and tighten the M6 x 30mm hex head screw.

Align Here

Spindle Center

Align with center axis of
hole in gearbox mechanism

SCALE 1:1
When printing this document,
check dimensions to make
sure figure has not been
inadvertently scaled.

**4.000 inch
(101.60 mm)**

Drill Here

Φ 9/16 inch hole
(for grommet and cable plug)

**5.079 inch
(129.00 mm)**

Drill Here

Φ 3/16 inch hole
(Φ 4.5 mm hole

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.   page 34 of 43

Configured for Direct Connection to Dry Contact Output System

Typical Wiring Schematic for use with TZ Port Link

TZ Slidehandle™

Door 1

12 Volt DC supply from Access Control or TZ Plug Pack

GND

+VE

TZ -7101-CL Port Link

AUX IN 1

GND

AUX OUT 1
AUX OUT 2

+V12

Relay Outputs
(one for each lock or one for both locks)

Relay Inputs

Option 1
Use integrated Door Position Sensor as shown in document "Door Position Sensor Wiring Example"

Option 2
Use separate wiring to connect a Door Position sensor to the Relay Input

Option 2
One Input per Front and Rear Door Sensors, series wired

ACCESS CONTROL
RELAY I/O

Note 1: Door Sensors (supplied with TZ Slidehandle) can be installed for each DPS wiring options shown

TZ 4272CF/R Slidehandle™

Door 2

TZ -7101-CL Port Link

AUX IN 1

GND

+V12

Note 2: The TZ-Slidehandle™ locks are programmed to enter Press to Release (PTR) mode when GND is applied to AUX IN 1 via Relay Closing Contacts and will remain in that state until GND is removed. The lock LED display will change from solid red to flashing orange when in PTR mode. Applying a slight pressure to the top of the lock when in PTR mode will cause it to release

Door Position
Sensor Wiring
as shown above

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.

page 35 of 43

Configured For Direct Connection to Dry Contact Output Systems

TypicalWiring Schematic for use with TZ Multi-Port Link
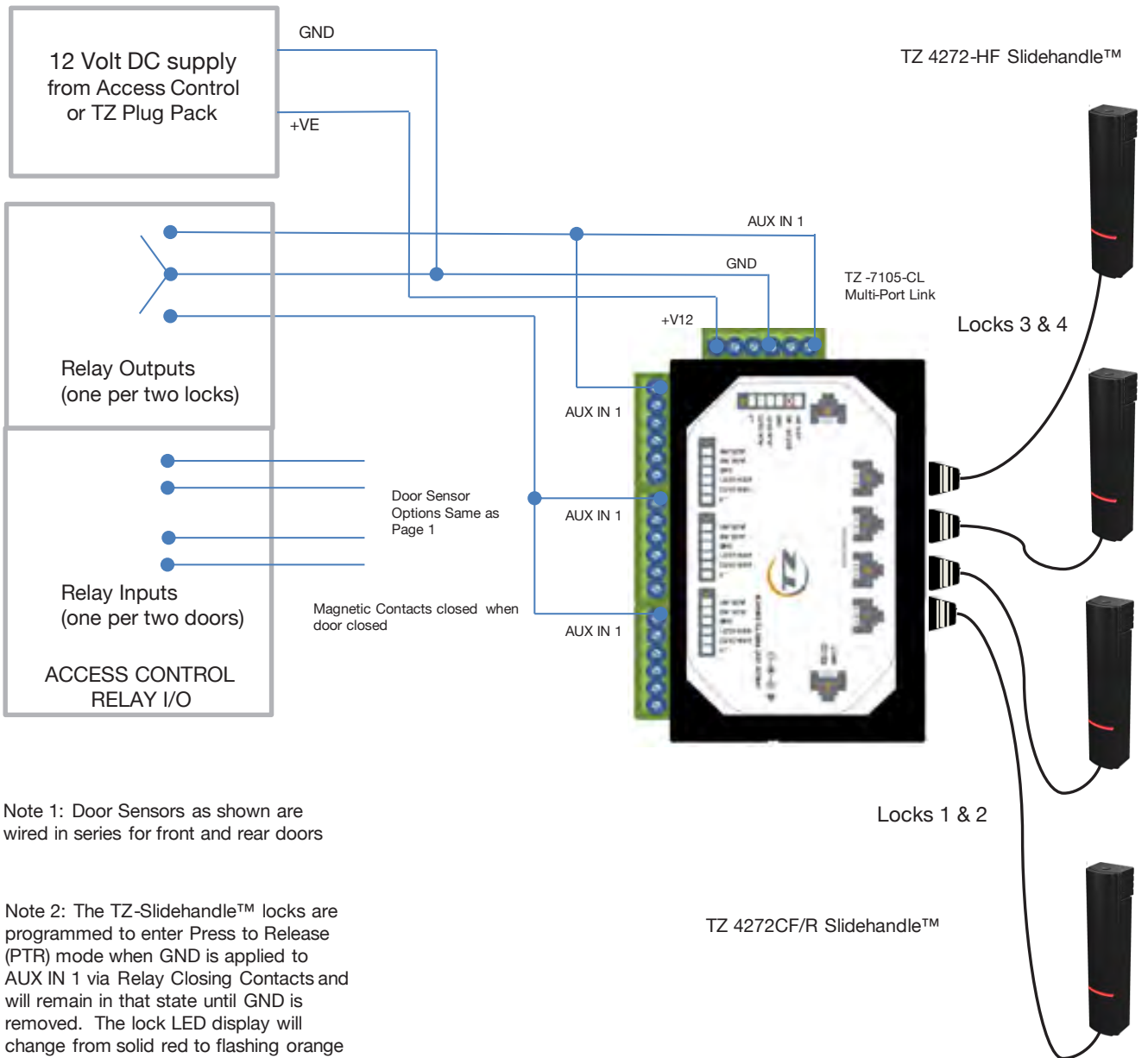
12 Volt DC supply from Access Control or TZ Plug Pack

GND

+VE

TZ 4272-HF Slidehandle™

AUX IN 1

GND

TZ -7105-CL Multi-Port Link

+V12

Locks 3 & 4

Relay Outputs (one per two locks)

AUX IN 1

Door Sensor Options Same as Page 1

AUX IN 1

Relay Inputs (one per two doors)

ACCESS CONTROL RELAY I/O

Magnetic Contacts closed when door closed

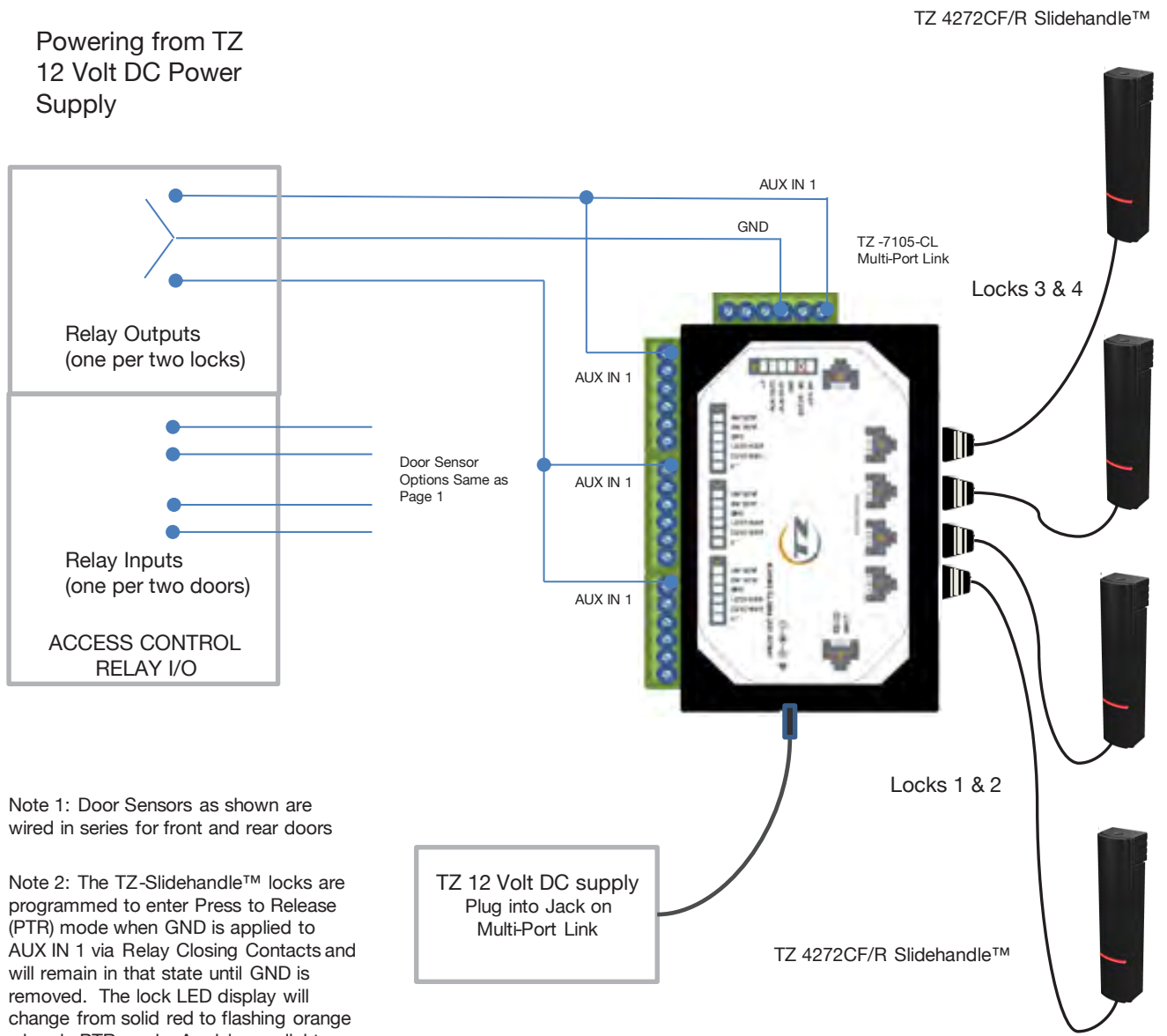AUX IN 1

Locks 1 & 2

TZ 4272CF/R Slidehandle™

Note 1: Door Sensors as shown are wired in series for front and rear doors

Note 2: The TZ-Slidehandle™ locks are programmed to enter Press to Release (PTR) mode when GND is applied to AUX IN 1 via Relay Closing Contacts and will remain in that state until GND is removed. The lock LED display will change from solid red to flashing orange when in PTR mode. Applying a slight pressure to the top of the lock when in PTR mode will cause it to release

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.

page 36 of 43

Configured For Direct Connection to Dry Contact Output Systems

Typical Wiring Schematic – TZ Power Supply & 1 Dry contact for 2 Locks

TZ 4272CF/R Slidehandle™

Powering from TZ 12 Volt DC Power Supply

AUX IN 1

GND

TZ -7105-CL
Multi-Port Link

Locks 3 & 4

Relay Outputs
(one per two locks)

AUX IN 1

Door Sensor
Options Same as
Page 1

AUX IN 1

Relay Inputs
(one per two doors)

AUX IN 1

ACCESS CONTROL
RELAY I/O

Locks 1 & 2

Note 1: Door Sensors as shown are
wired in series for front and rear doors

Note 2: The TZ-Slidehandle™ locks are
programmed to enter Press to Release
(PTR) mode when GND is applied to
AUX IN 1 via Relay Closing Contacts and
will remain in that state until GND is
removed. The lock LED display will
change from solid red to flashing orange
when in PTR mode. Applying a slight
pressure to the top of the lock when in
PTR mode will cause it to release
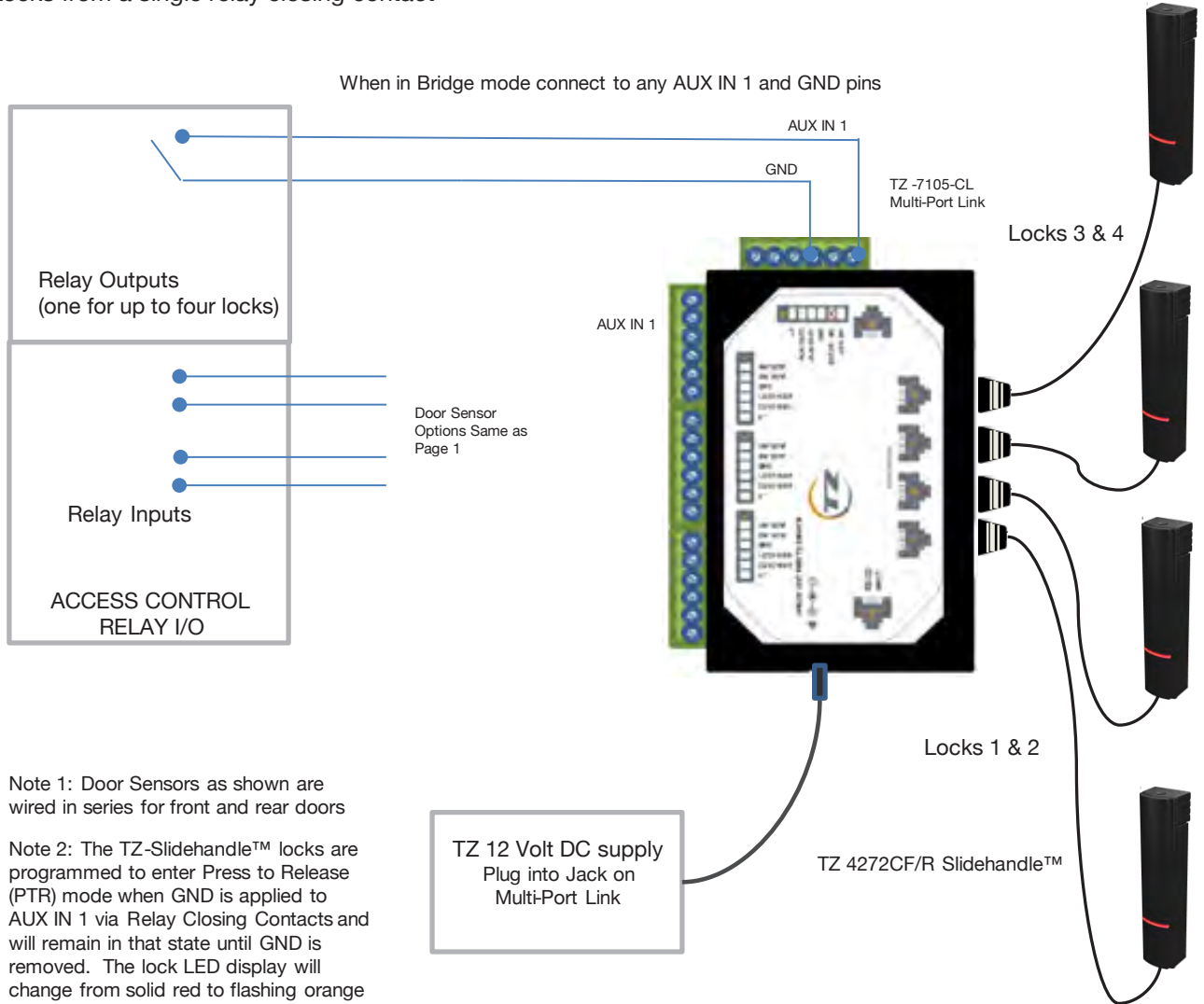
TZ 12 Volt DC supply
Plug into Jack on
Multi-Port Link

TZ 4272CF/R Slidehandle™

Configured For Direct Connection to Dry Contact Output Systems

TZ 4272 -HF Wiring Schematic – 1 Dry Contact for 4 Locks

The TZ MultiPortlink™ is equipped with an internal DIP switch that when selected can bridge AUX IN1 pins of all 4 ports for simultaneous triggering of connected Locks from a single relay closing contact

TZ 4272CF/R Slidehandle™

When in Bridge mode connect to any AUX IN 1 and GND pins

AUX IN 1

GND

TZ -7105-CL
Multi-Port Link

Relay Outputs
(one for up to four locks)

Locks 3 & 4

AUX IN 1

Door Sensor
Options Same as
Page 1

Relay Inputs

ACCESS CONTROL
RELAY I/O

Locks 1 & 2

Note 1: Door Sensors as shown are wired in series for front and rear doors

Note 2: The TZ-Slidehandle™ locks are programmed to enter Press to Release (PTR) mode when GND is applied to AUX IN 1 via Relay Closing Contacts and will remain in that state until GND is removed. The lock LED display will change from solid red to flashing orange when in PTR mode. Applying a slight pressure to the top of the lock when in PTR mode will cause it to release

TZ 12 Volt DC supply
Plug into Jack on
Multi-Port Link

TZ 4272CF/R Slidehandle™

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.

page 38 of 43

TZ Slidehandle™ Connection to third party Building Access systems using TZ Portlinks

TZ SMArt™ locking devices can be configured to operate from a dry contact or relay closure signal (Typically TZ locking devices use RS485 serial data communications between lock and controller however the lock firmware can be configured to also respond to dry contact closure signals. This allows TZ Locking devices to be directly connected to any Building Access control system without a TZ Praetorian™ Junction as the interface.

Direct connection to third party control systems

TZ Slidhehandles™ locking devices are compatible with any Closing Contact control system. The contact must be held closed to keep the TZ Lock in the "Flashing Orange" Press to Release mode.

Typically 2 pair cable (see next page) if Door Position Sensor is connected to TZ Slidehandle. If Door Position Sensor is wired direct to the Access Control system only 1 pair of wires required.

TZ Multi-Port Link™ for up to 4 Locks (either independently controlled or ganged together.

Third Party Card Reader

Third Party Access Controller

TZ Multi-Port Link™ for up to 4 Locks (either independently controlled or ganged together.

TZ Port Link™ for a single lock connection.
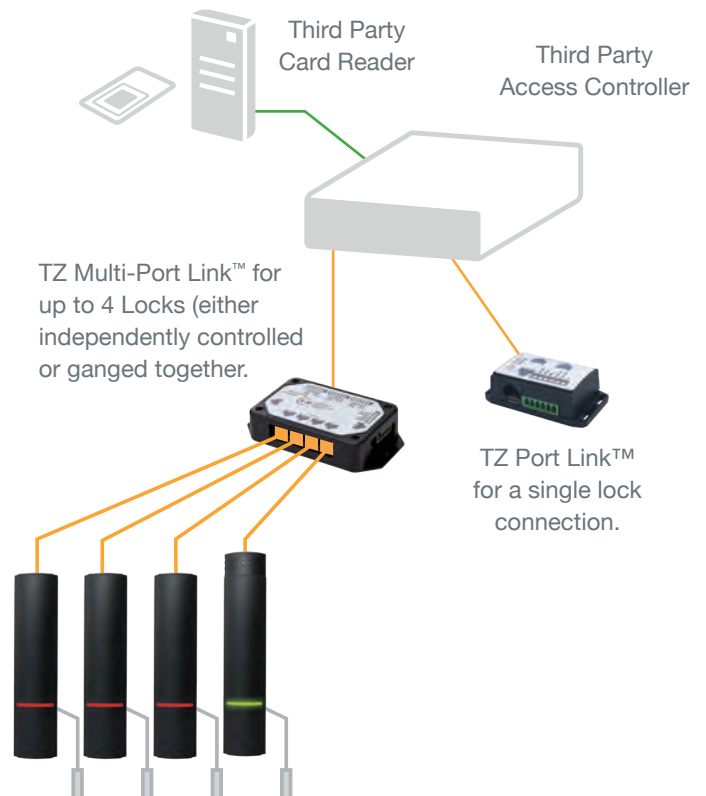
## Typical Cable and DPS Terminations
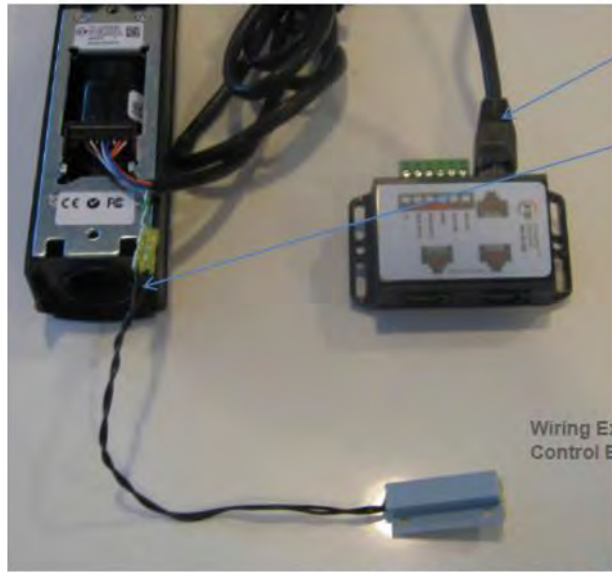
Plug the Cat5e TZ Lock Tail into the "Lock" Port of either a TZ Multi Port™ Link or TZ Por tlink™

Door Position Sensor is connected to the Green & Green White wires removed from the header

Wiring Example from Access Control Equipment to TZ Lock

Centurion™
Port Link
ixp.tz.net

AUX-IN1
AUX-IN2
GND
AUX-OUT1
AUX-OUT2
+V

Authorization Enable (IN)
Short circuit equals enabled
Open circuit equal disabled

Door Position Status (OUT)
Short circuit equals Cabinet Door Closed
Open circuit equals Cabinet Door Open
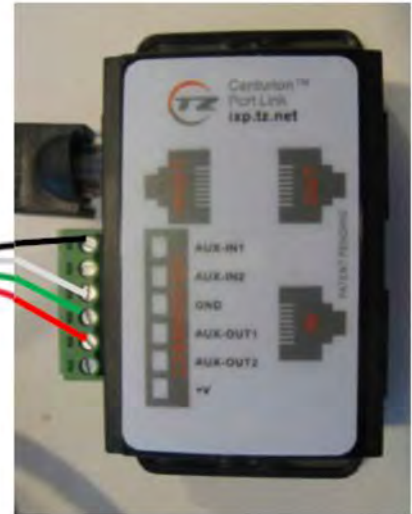
Door Position Sensor wiring for Direct Connected TZ Slidehandle™ Lock
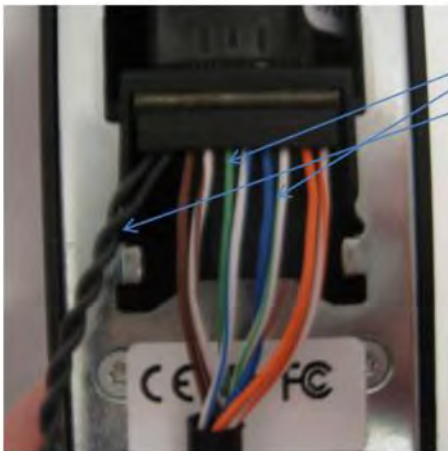
Snip Green & Green White wires from Header
Also snip off the black flying leads – these are no longer required
Make sure the wire cut is clean so as not to cause short circuits
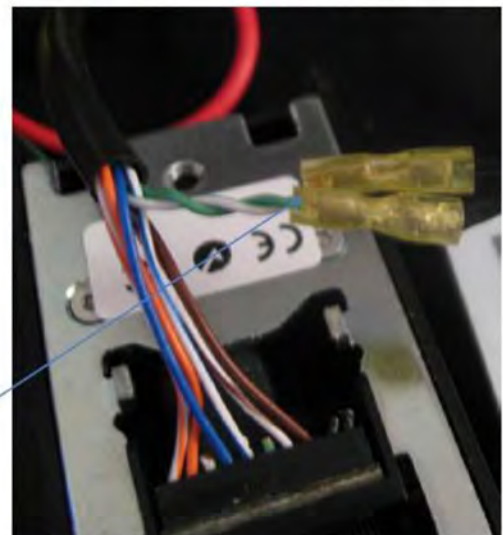
Attach Green & Green White wires to Door Position Sensor
(provided) with crimps (also provided)

Typical TZ Slidehandle™ Installation Front and Rear Door

Rear Door

Front Door

Example of Cable Dressing using Raceway Adhesive backed anchors and cable ties can also be used

Cable dressed in plastic racey with adhesive back.

Door position sensor.

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.   page 41 of 43
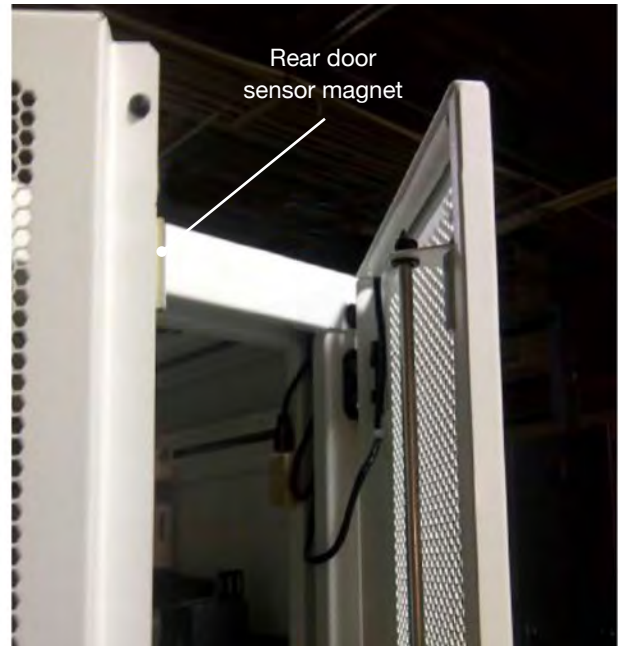
Door Sensor mounting Rear Double Door

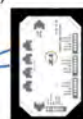TZ door position sensor

Rear door sensor magnet

Cable connections to BAC system

Cable dressed in plastic raceway with adhesive back

RJ45 female to female inline connector (included with TZ Slidehandle). This allows for easy door removal.
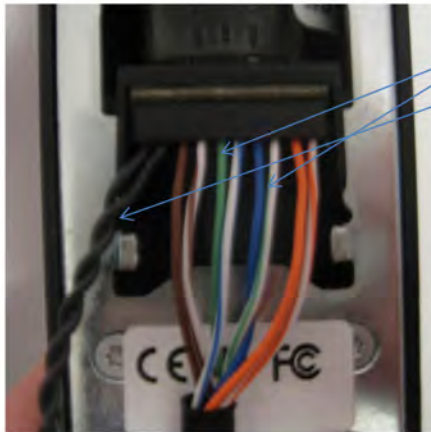
Patch cable is required to connect from the inline connector to the TZ MultiPort Link which can be mounted in a convenient location inside the cabinet to serve the front and rear door and be the termination point for the cabling from the Access Control equipment

TZ MultiPort Link (mounted inside cabinet)

To Building Access Control System

From TZ Lock on Rear Door

A TZ Business | ixp.tz.net | © 2015

TZ®, TZ Praetorian™, TZ Centurion™, TZ SlideHandle™, TZ SMArt™ and TZ Radial™ are trademarks of TZ Limited. Patents Pending.   page 42 of 43

Door Position Sensor Wiring Option for TZ Slidehandle™ Dry Contact Applications

Snip Green & Green White wires from Header
Also snip off the black flying leads – these are no longer required
Make sure the wire cut is clean so as not to cause short circuits
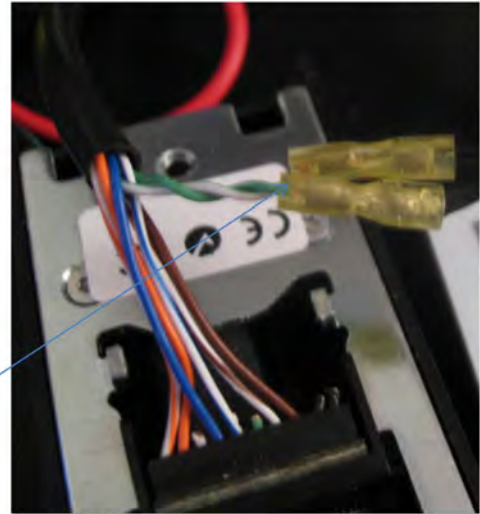
Attach Green & Green White wires to Door Position Sensor
(provided) with crimps (also provided)

Door Position Sensor and Lock Connection to TZ Link device
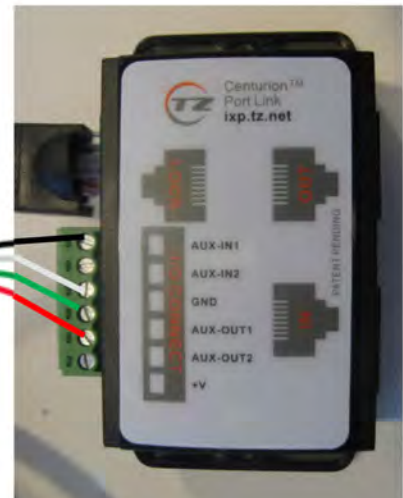## TZ Link device cabling example to Access Control system

Plug the Cat5e TZ Lock Tail into the "Lock" Port of either
a TZ Multi Port™ Link or TZ Por tlink™

Door Position Sensor is connected to the Green & Green
White wires removed from the header

Wiring Example from Access
Control Equipment to TZ Lock

AUX-IN1
AUX-IN2
GND
AUX-OUT1
AUX-OUT2
+V

Authorization Enable (IN)
Short circuit equals enabled
Open circuit equal disabled

Door Position Status (OUT)
Short circuit equals Cabinet Door Closed
Open circuit equals Cabinet Door Open

infrastructure
protection

ixp.tz.net