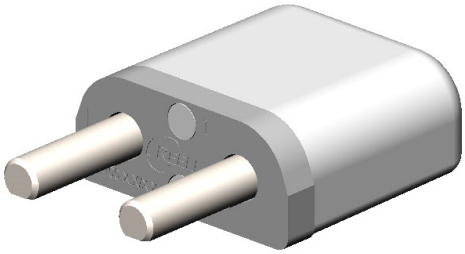
DX100 INSTALLATION GUIDE



Reell's DX100 dual axis hinge provides full fold over capability for thin panel designs. At just 8mm thick, the DX100 integrates well for a clean design in panels half the size compared to competitive products.

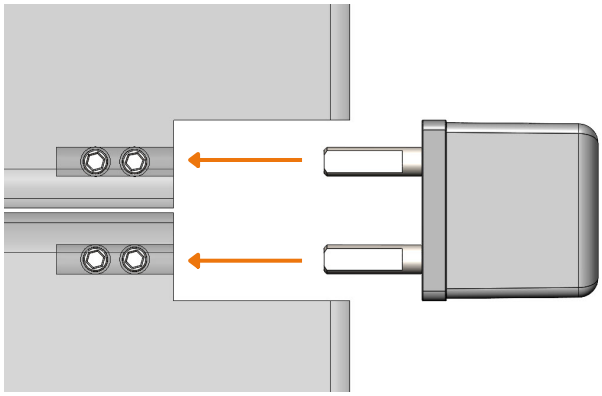
Adding torque in applications like aircraft meal trays or fold out medical cart worksurfaces and covers eliminates loose feel or rattle, holds panels securely in position, and enhances the user experience.

INSTALLATION PROCESS

Follow these simple steps to seamlessly integrate the DX100 into your thin panel design
For additional dimensional information, reference DX100 drawing at www.Reell.com

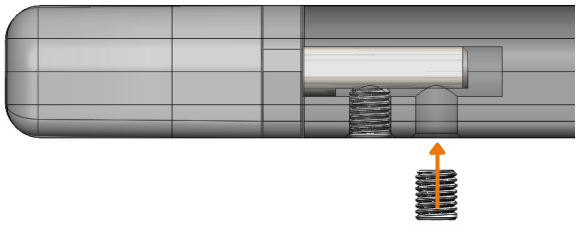
STEP 1:

Insert each shaft into corresponding holes in the panel. The shaft flat should be perpendicular and facing the threaded set screw hole.



STEP 2:

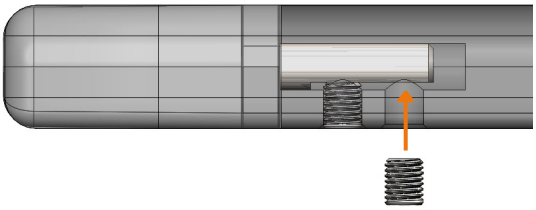
Install (2) M3 flat point set screws through the panel, bottoming out on the shaft flat. Rotate panel to ensure proper operation. A thread locking compound is recommended on the set screw threads. Avoid any compound from entering into the DX100 body.



PANEL DESIGN CONSIDERATIONS

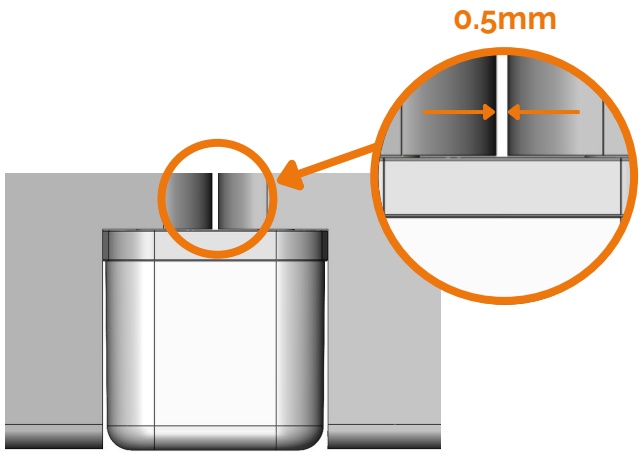
SET SCREW LENGTH

Shaft installation holes should be tapped and drilled for M3 x 3mm flat point set screws. Screw length can vary for panels over 8mm thick.



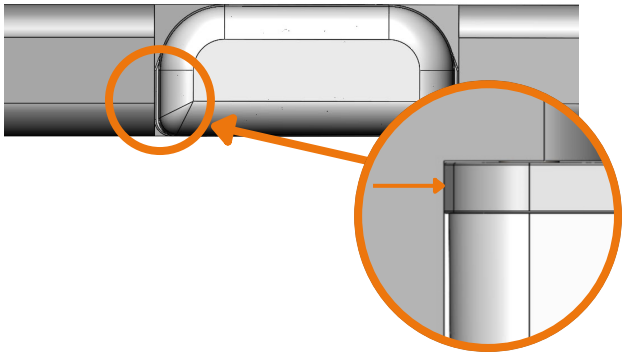
MINIMUM PANEL GAP

The suggested minimal gap to prevent binding between panels is 0.5mm.



PANEL STOPS IN OPEN POSITION

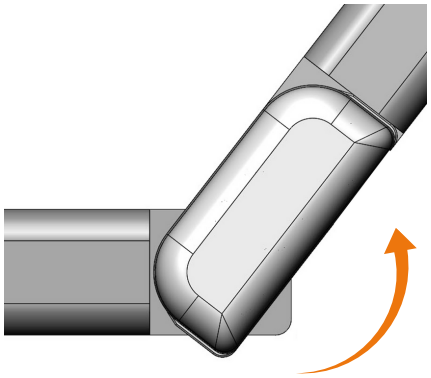
Panel design stops in the open position must be on the bracket as shown, not the cover. This ensures 180° in the open position and reduces the stress on each hinge.



PANEL DESIGN CONSIDERATIONS

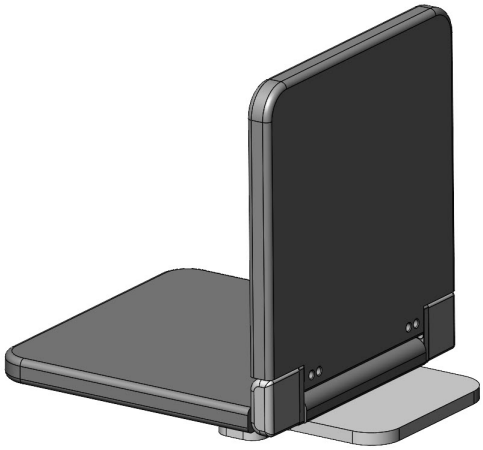
ROTATIONAL CONSIDERATIONS

Ensure the edge design allows for rotation around the hinge as shown.



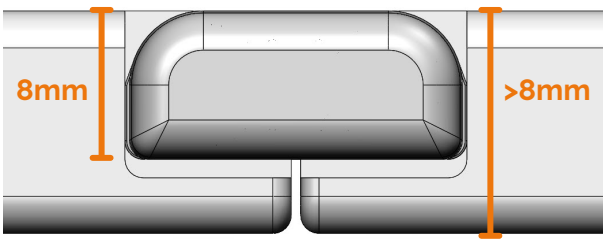
ABUSE LOADS

Consider a panel design that provides additional support for abuse loads. Example shown for illustrative purposes. Final design dependent on the application parameters. Customers must test for suitability.

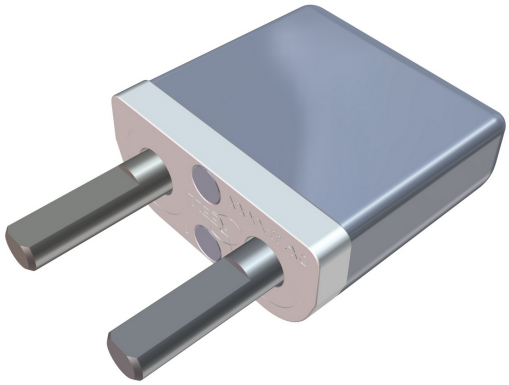


PANEL THICKNESS

The thin design of the DX100 fits well with 8mm panels. For thicker panels, the additional thickness should extend toward the bottom of the design in the open position.



ADDITIONAL NOTES AND GUIDELINES



NOTE 1:

Product recommendations and installation instructions provided as general guidance. Many factors may impact final product performance, Reell strongly advises customers to test our product in their end use application to confirm acceptable performance.

NOTE 2:

Reell recommends additional support between each panel half to increase the strength and resistance to abuse loads. Reference DX100 drawing at www.Reell.com for additional dimensional requirements for mounting.

NOTE 3:

If mounted along a vertical axis (rotation perpendicular to the ground), Reell recommends minimal load in the vertical direction. In this orientation, the set screws used carry the load unless additional design features are used.

NOTE 4:

Additional dimensions, technical details and warranty statement can be found for this and other products at Reell.com.