

Superior

PAPER HANDLING SOLUTIONS

SortPro – SP-1 & SP-2 Offset Stacker



CONTENTS

1. SortPro Unit
2. Mounting Bracket
3. Mounting Screws
4. Electrical Diagram

OVERVIEW

1. SortPro has three cables. Power (115Volt), Host SystemTrigger Interface (Dry Contact), Photocell (Optional: Only used for Batch Counting, Not used for Host Interface).
2. SortPro can be connected to a Host System such as an Ink-jet controller to provide the signal to the SortPro when to activate. The Host System uses its database to determine when to sort, then uses its I/O module to activate the SortPro when to identify the sort break on the conveyor.
3. SortPro can be used as an independent batch counter. When the Optional photocell is ordered, the photocell can be placed prior to the SortPro, and the pre-selected count on the SortPro is used to identify the count break.

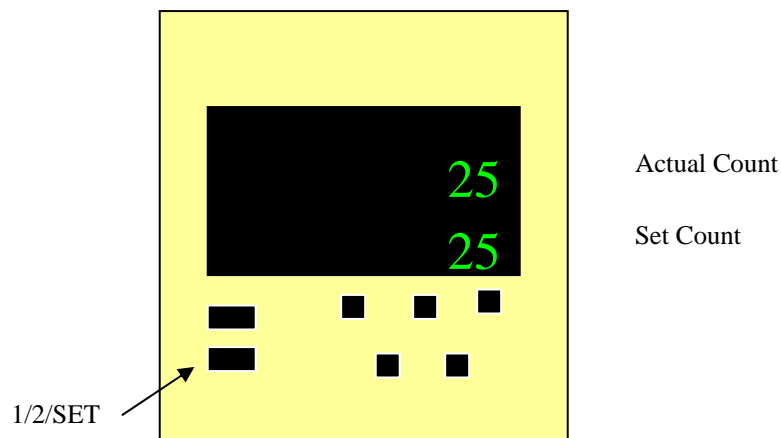
INSTALLATION

1. Drill holes in alignment with the slots in the mounting bracket.
2. Mount the bracket using the screws provided.
3. Position the bracket in its upper most position to start. The bracket will be lowered after the SortPro is mounted to the bracket.
4. Insert the rods of the SortPro into the mounting bracket holes.

5. Adjust the SortPro to the approximate length of the piece being sorted on the conveyor. This can be fine tuned after installation is complete.
6. Lower the Mounting bracket so that the Rear Stop Position balls are just touching the conveyor belts.
7. With the power off, the Front Stop Position balls will be in the down position and they should also be just touching the conveyor belts.
8. Before Connecting the Host Interface Cable to the Host System, please read the Operation Section. You may want to manually test SortPro.

OPERATION

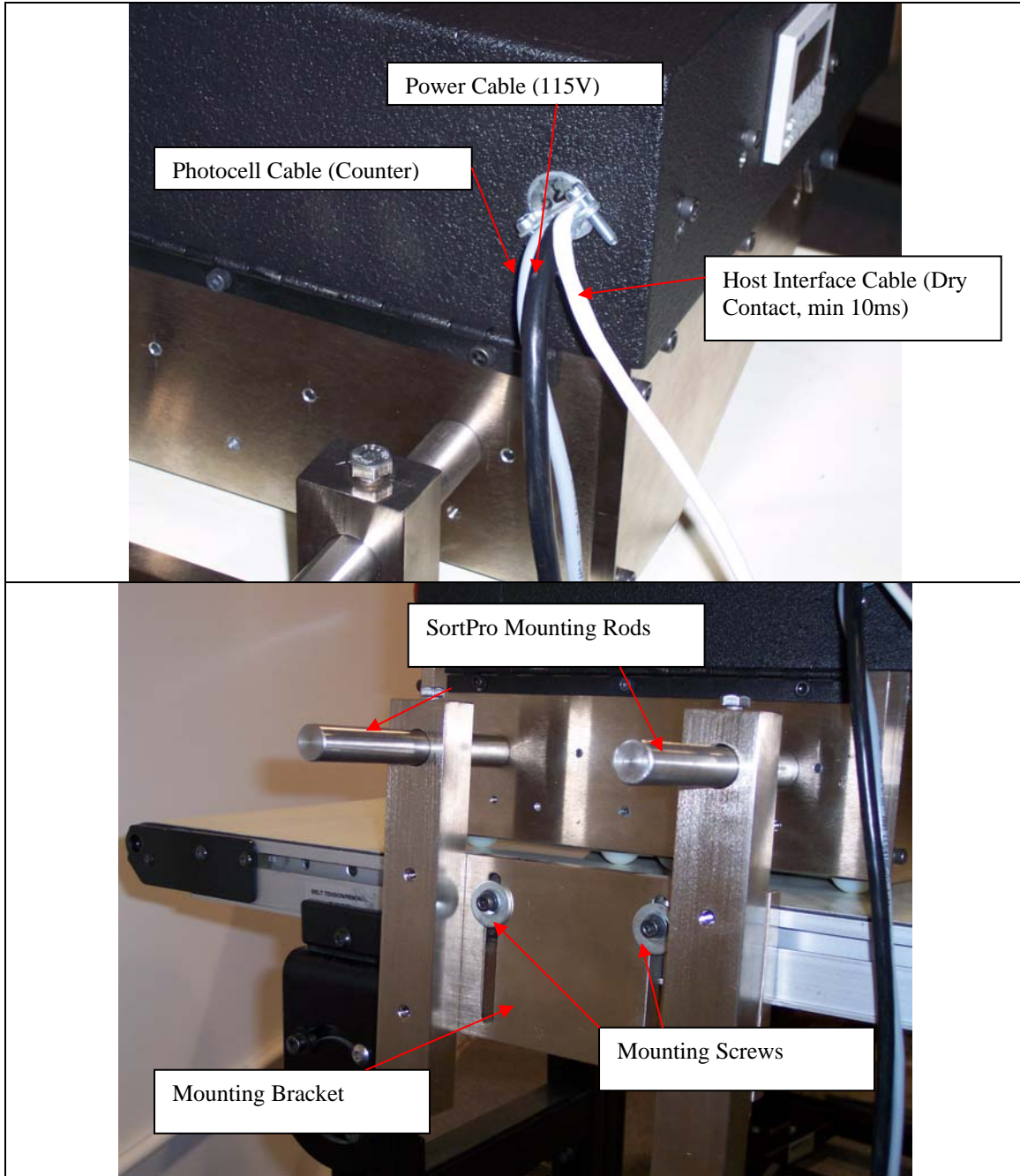
1. When power is applied to the SortPro, the E-stop button is used as the on/off controller. If the E-stop button is pressed, there will be no power indication on the counter screen. To apply power, twist and release the E-stop button.
2. When power is applied, the counter will show the last number that was set on the counter screen.
3. When receiving “sort” signals from a controller, the preset number has no significance. To set the counter for photo-eye operation, follow these steps; using 25 count as the example, press the “ones-digit” button until it reads 5, press the tens-digit button until it reads 2, then press and hold the 1/2/set button until the digits stop blinking.

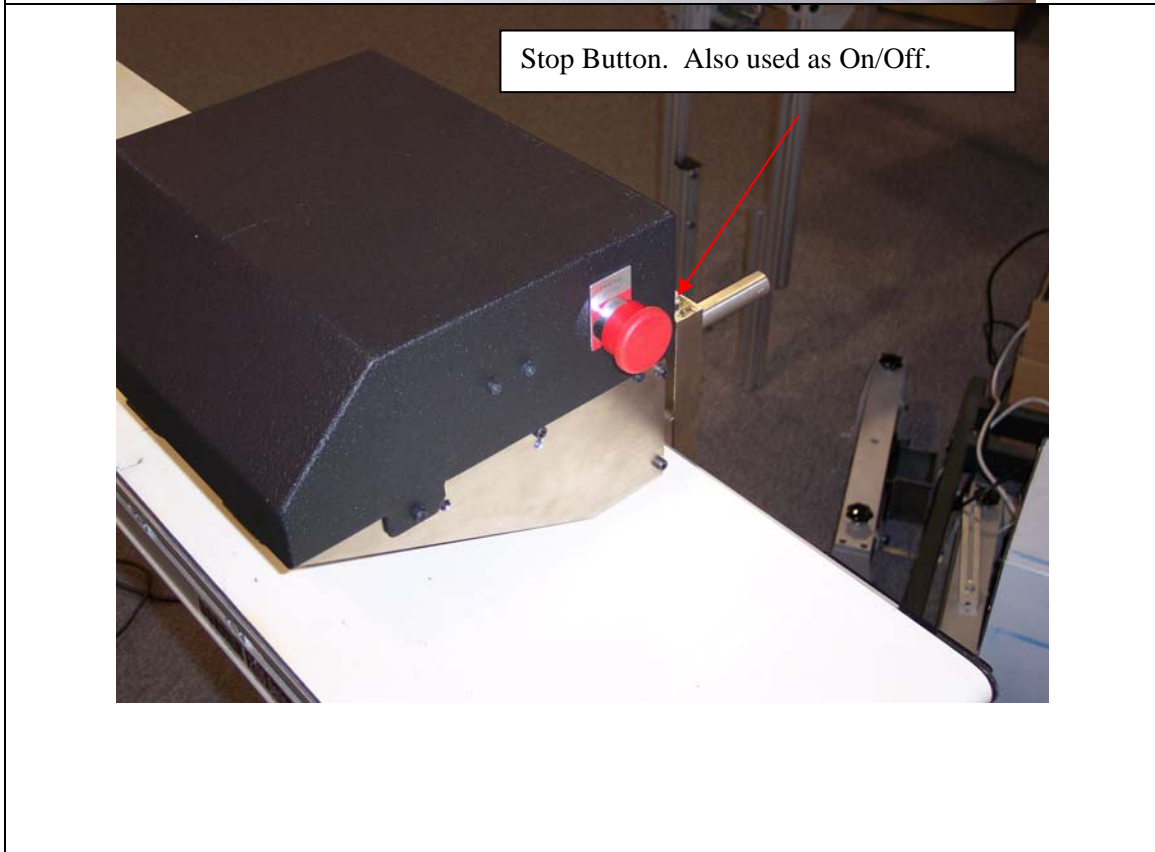
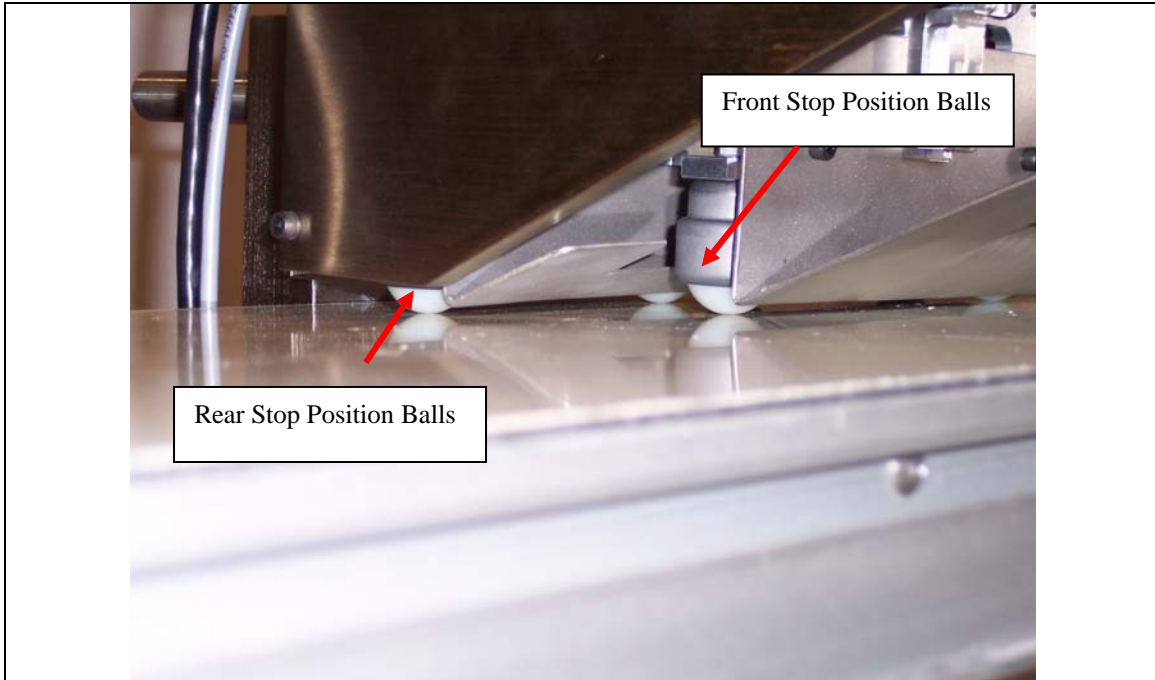


4. The SortPro is now installed and operational.
5. When connected to the Host System, each time the Host System activates and deactivates the Interface connection the SortPro changes position from up to down and vice versa.
6. When operated with the photocell in count mode, each time the count is reached the SortPro changes position from up to down and vice versa.

HOST SYSTEM INTERFACE CONNECTION

1. Connect the Host Interface cable to the Host System I/O module.
2. The Host Interface Cable is connected to a Dry Contact relay inside the SortPro.
3. If the Host System I/O module does not support Dry Contact connections, use an intermediate relay between the Host System I/O and Host Interface Cable.
4. If the Host Interface Cable is not long enough, then add sufficient cable to reach the Host System I/O module.
5. From the Host System Controller set-up the I/O to activate based on the database fields or other criteria as required for the application.
6. From the Host System Controller set-up signal length to the SortPro. The activation signal should be around **10ms** in length.
7. From the Host System Controller set-up the distance or time delay between the Host System trigger photocell and the SortPro. This requires a little trial and error to select the correct value, but most Host System Controller's utilize an encoder, so once it is set, regardless of speed setting the SortPro will activate at the correct time.





Electrical Diagrams

