

Miami Herald "SICK" Infrared Detector Retrofit for Baldwin Ultrasonics

Here is the drawing for the sick detector and pictures. The photoeyes are mounted into our existing 1127/1128 Baldwin bar. The Sick WT18-2N430 is an active low infra-red photoeye. I don't know all of your press interfaces. If you need an active high photoeye, the WT18-2P430 can be used. On the Newsliner, a 2 K-ohm, 1/2 watt resistor is tied from the input to +24V to keep the input high (not floating) when there is no low input from the bar.

The photoeyes are mounted in the bar (unmovable). The reason for this is the pressmen were positioning them too close to the edge of the sheet which caused cutouts. They were also tearing up the cables and connectors. The photoeyes are positioned so they are 4" from the edge of the sheet when running a half roll in middle. They are also in "individual" mode so if either eye does not see the sheet, it is considered a web break. This helps with taper-offs. If you have trouble with "mapped but not sensed" messages at startup caused by one phototeye not covered due to a half roll positioned to the drive or op side, cut a 4" diameter piece of PVC 9" long and have the pressmen slip it over the photoeye that is not being used. Only one PVC per bar which is all that you will need. Drill holes and place ty-wraps through the holes and around the bar on each side of the photoeye 10" apart (see picture). This will keep the PVC from vibrating and moving off the unused eye.

You will want to drill some access holes for the photoeye mounting holes (2) and the phototeye sensitivity adjustment (1). The photoeye has an adjustment range of 2" to 27" which is nice for those situations when you can't get the bar close enough. If you have any questions, please call me at 305-376-2898 or email me at icollins@herald.com. I hope that this helps. 5/10/04



