

QUIPP System 3400 Safety Light Curtain

Introduction

QUIPP Series 3400 Newspaper Stacker Safety Light Curtains are designed to prevent injury to an operator who inadvertently extends a hand or other object into the lower operating area of a stacker.

A non-visible “wall” of light is directed across the bundle deliver path(s) of a stacker. Should this light curtain be interrupted by any object, the stacker turntable is instantly disabled. An uncompensated stack may be discharged from the stacker - - *but* - - -

IMPORTANT: The stacker is *not* shut down. It simply continues to run in an uncompensating mode until the foreign object is removed from the curtain.

The Light Curtain design is based on **QUIPP** experience gained since early 2000 on similar but larger Light Curtains installed on **QUIPP** Series 8650 Automatic Bundle Palletizers. Safety Light Curtains have been installed on a number of **QUIPP** Stackers.

Design and Operation

A Light Curtain Assembly includes an enclosed infrared light source mounted vertically on one edge of the stacker frame with a light source receiver mounted opposite (see figure). Cabling to the two units is fully enclosed and bundle delivery is unimpeded by the assembly.

In operation, when the light curtain is breached:

1. if turntable rotation has not yet been initiated, rotation is prevented until the curtain is clear.
2. if rotation has just begun, the operating air supply to the turntable operating cylinder is immediately shut off and the table immediately returns to its “home” position.
3. if rotation is more than half completed at the time of the breach, rotation is quickly completed and then further prevented until conditions are again normal



A Light Curtain installed on a QUIPP 400 Stacker, light source to the right and receiver unit to the left. Note the open configuration and the absence of exposed cabling.

Features

- Both light source and light receiver units are fully enclosed and protected against damage by personnel, products or external machinery (a strapper or bottomwrapper rolled up against the stacker side).
- Necessary wiring to both light source and receiver is fully enclosed within the stacker framework to prevent accidental damage.
- Stacker operation is not shut down with a breach of the Light Curtain. The bypass gate of the stacker is not opened and press operation can continue undisturbed.

Options

- The **QUIPP** Series 3400 Newspaper Stacker Safety Light Curtain is available in kit form for retrofitting onto existing **QUIPP** 30X, 35X and 40X Series Newspaper Stackers. A detailed installation instruction is included in the kit complete with a short, easy to understand installation procedure video.
- Safety Light Curtains can be installed under the supervision of QUIPP field service personnel.

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