

SAFETY PROTECTIONS IN A PAPER PRINTING APPLICATION

Background

Large, high speed printers (like those for newspapers) can be very dangerous. Typically, if there is a violation of the safe space around the equipment it calls for an immediate shut-down. The primary function, safety for the workers is preserved, but there is a commercial cost in terms of significant loss of product, perhaps damage to the web control, and the need to reset the machine.

Solution

In an alternative process, a high speed printer operation can be viewed as having different safety zones, each controlled by its own motor in synchronization with the other motors. By treating each section in this way, a safety violation in one area allows that area to respond quickly, maybe executing a knife cut and dumping excess paper very quickly while the other sections adjust their speed in such a way to protect their functions but also ramp down the speed in a safe manner. This maintains the safety aspects, while also reducing the commercial cost of a safety violation.

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Large printers can benefit by creating independently controlled safety zones.



A sheet feeder station is a perfect candidate for applying functional safety rules.

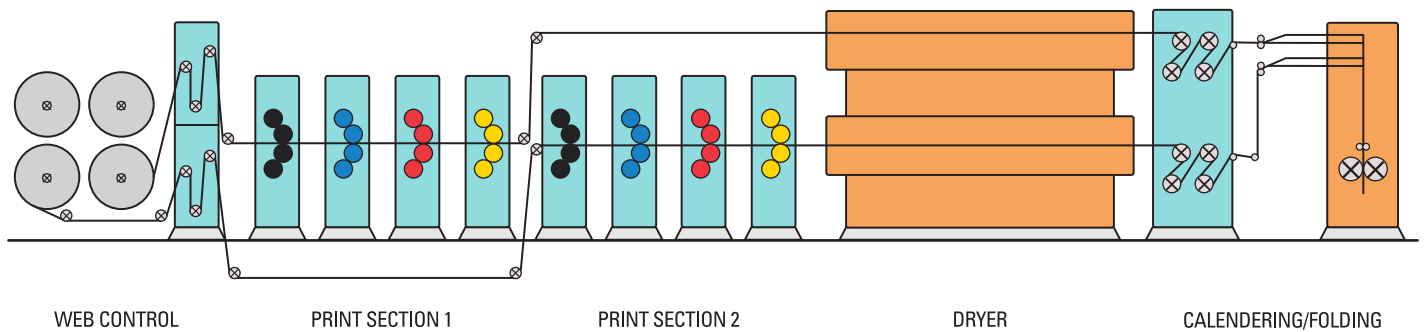


RELATED PRODUCTS

Product	Type	Features	Part Number	Function	Brand
 DSU9H	Hollow shaft encoder	<ul style="list-style-type: none"> Secure Positive lock mounting Standard incremental output 	DSU9H	Safety encoder	BEI Sensors



GENERAL DIAGRAM



Set-up of Safety Zones for a High Speed Printing Operation

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