

Paper Cutter on Web Coater

EXPLOSION PROOF

AP 00250

PRODUCT

EXD-Q explosion-proof switches

APPLICATION DESCRIPTION

The EXD-Q is used to sense the down position of a 300 pound after finishing a cut on the colored paper stock flowing along the company's 60 foot-long web coater. When the switch sense a sown position, it actuates an air valve, which returns the blade to its up position for the next shear. The coated paper rolls are 27 inches wide, and the average sheet is cut 31 inches long. The sheets are later sliced into the color chips found in paint selection booklets throughout the country.

Explosion-proof switches are designed to contain a switch-area explosion within the switch housing. They are found in many industrial, agricultural and commercial applications. at the Dorn Color Card Company, the EXD-Q is needed because of the volatile nature of the vapors produced by the nitro-cellulose lacquers applied to the paper stock to produce the color samples.

The heavy vapors, which come from a quick-drying process, drift toward the floor creating a potentially hazardous condition. Since the blade return mechanism sits in this area, an explosion-proof switch is critical.

There are three other

Honeywell explosion-proof switches on the web coater that help the front and rear motors keep the paper taut, and control the motor at the coating head.