# PBD Ply Break Detection Systems

## General Description
This system detects ply breaks in a multi-ply tissues web.

## Functional Description
During the conversion process of a tissue web, it may be necessary to laminate one or more plies together to achieve a final product. When a break or fold-over occurs on a single ply of a multi-ply web, excessive waste will result during downstream processes. Monarch's Ply Break Detection System identifies a break or a fold-over in any ply of a multi-ply tissue web to improve operating efficiencies.

## Technical Description
The Monarch Ply Break Detection System is a sensor that views one web surface on either a tissue rewinder or converting machine. At each new roll change the sensor automatically memorizes the web's characteristics to account for grade changes or color shifts. If any sudden change occurs, the sensor interprets this as a break in either one or more plies. Sensor signals can also be integrated with a Monarch Break Marking System to automatically mark breaks and fold-overs as they are detected.

## Benefits of the PBD Ply Break Detection Systems
- Will eliminate downtime on subsequent converting processes
- Will immediately alert you of dangerous roll wraps as they occur.
- Automatically memorizes the sheet after each roll change or break.

## Features of the PBD Ply Break Detections Systems
- Continuous Air Purge design keeps sensor optics clean.
- Works on any color of web.
- Provides quick disconnect air and electrical connections for easy installation

## Specifications of the PBD Ply Break Detection Systems
- Operating Temperature 400° F.
- Operating Humidity 99% RH.
- Sensing Range 2-7 inches (right angle on white tissue)
- Response time 1 millisecond (400 ms. Adjustable On-delay)
- Air consumption 1 CFM, 40 psi per sensor
- Power Consumption for sensor 24 VDC @ 75 mA.
- 30 ft. (10 M) fiver optic cable provided

MADE IN USA

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