## FEATURES • ACCESSORIES

- No programming required
- Ultrasonic system reliably detects zero, one, or two (overlapping) sheets
- Insensitive to print, colors, or glossy surfaces
- Material weight from 10 g/m² to 2000 g/m²
- Very broad range of materials, from very thin papers to very heavy paper to thin sheet metal and plastic or metal foils
- Perpendicular or angled sensor mounting
- Signal output via 3 short-circuit-resistant, PNP switching outputs


| Double sheet sensor | Transducer | Output | Overall length | |
|---|---|---|---|---|
| | | | Receiver | Transmitter |
| UDC-18GM-400-3E3 | straight | 3 x PNP normal closed | 74 mm | 22 mm |
| UDC-18GM50-400-3E3 | straight | 3 x PNP normal closed | 50 mm | 22 mm |
| UDC-18GMA-400-3E3 | right angled | 3 x PNP normal closed | 74 mm | 74 mm |

- All outputs are also available as NPN or normally open versions. Special, application-specific models are available upon request.

### ACCESSORIES

- MH-UDB01 mounting bracket


- UDB-Cable-1M
  Extension cable between transmitter and receiver, length: 1 meter
- UDB-Cable-2M
  Extension cable between transmitter and receiver, length: 2 meters

**Up-to-date information is just a click away.**
**Find it at: www.2sheet.com**

# FACTORY AUTOMATION – SENSING YOUR NEEDS

Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements—wherever you need us.

PEPPERL+FUCHS
SENSING YOUR NEEDS

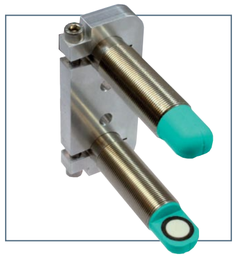






# ULTRASONIC

# DOUBLE SHEET DETECTION

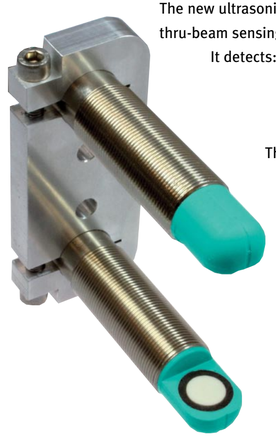


PEPPERL+FUCHS
SENSING YOUR NEEDS

## DOUBLE SHEET DETECTION

Ultrasonic double sheet detection is used in all situations where the automatic distinction between single and double sheets is required in order to protect machinery or avoid waste.

### UDC-18GMA



The new ultrasonic double sheet detector UDC-18GM... is based on ultrasonic thru-beam sensing technology.

It detects:
- No sheet (air)
- Single sheet
- Double sheet

The sensor is pre-configured with four selectable evaluation programs that enable the detection of a wide variety of sheet materials. The user can select the program best suited for the application at hand.

- Simple program selection for evaluation of application-specific materials
- Output pulse extension of 120 ms possible
- End sensing or right-angled sensing (shown) models available

## LABEL DETECTION

### ULTRASONIC SYSTEM FOR THE DETECTION OF LABELS AND BASE MATERIALS

The packaging industry is one of the most innovative when it comes to the creation of new and unique labeling for consumer products. These labels can now come in a variety of shapes, colors, materials, and thicknesses and require a sensing technology that can adapt to these various media types.

Sharing the industry's motivation and enthusiasm for packaging, Pepperl+Fuchs has developed a new sensor, the ULB-18GM50-255-2E3, that can reliably sense transparent, glossy, or metallic labels used in today's packaging industry.

- Extremely accurate
- Material-independent label detection
  - paper labels
  - transparent materials
  - colored and reflective surfaces
- Short design / only 55 mm long

## SPLICE DETECTION

### ULTRASONIC SYSTEM FOR SPLICE DETECTION

In the paper and packaging industries, web-fed materials are typically spliced together using glue or tape. Our ultrasonic splice detection sensors are used to sense the splice between sheets of paper or thin plastic.

The UGB-18GM50-255-2E3 ultrasonic sensor accurately detects splices in a variety of media. It is resistant to environmental influences, insensitive to color, easily programmed for different materials, and automatically compensates for slowly changing ambient conditions.

- Insensitive to environmental interference
- Insensitive to print, colors, and reflective surfaces
- Very high processing speeds/600 µs response time
- Pulse extension
- Short design/only 55 mm long