Leuze electronic

the sensor people

IGSU 14B –

Ultrasonic forked sensor of the latest generation

PRODUCT INFORMATION

Today's way of **detecting** labels – **fast** and **reliable**. Ultrasonic forked sensor IGSU 14B.

Leuze electronic's new ultrasonic forked sensor generation sets standards in functionality and flexibility.

New types of packaging and labelling materials set new challenges for sensors used in label detection. A wide range of composite materials – ranging from paper to transparent foil, printed or metallised – have to be detected reliably with high dispensing accuracy and increasingly faster conveyor speeds. As the inventors of the ultrasonic forked sensor technology, we have considered this development at an early stage. With the IGSU 14B, we have now launched a new era of ultrasonic forked sensors.

Our new and unique ALC technology (auto level control) guarantees reliable functioning even under small material variations due to the automatic online optimisation of the switching threshold. With the press of just one button, the new Easy Teach Function facilitates the teach-in. An IGSU 14B uses this function to independently detect the signal level with which it can operate.

These and many more functionalities of the IGSU 14B ultrasonic forked sensor set new standards in terms of the maximum processing speeds and reliability in combination with easy handling.

Each innovation is trendsetting on its own – absolutely unrivalled in combination.

Simple handling

The forked sensors of the IGSU 14B series convince through a multitude of technical innovations, each of which sets new standards in the area of ultrasonic forked sensors.

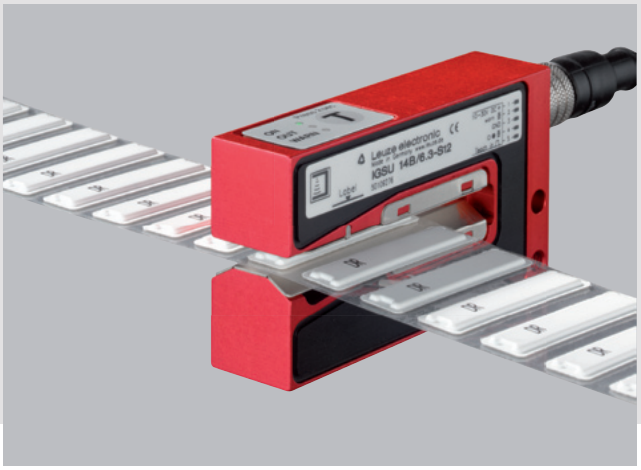
- **New**
  Easy Teach Function:
  press button – dispense labels – done!
- **New**
  Easy and manipulation-proof configuration via lockable teach button or teach input
- **New**
  Separate optical LED warning output for the display of errors during teaching or operation
- Well-structured and clearly visible LED indicator for operation and switching output
- Well visible position display for the perfect alignment of the label trajectory

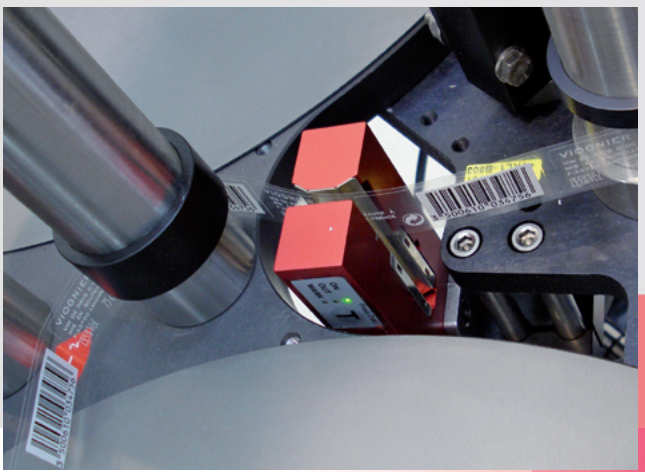
High flexibility

- Universal applicability for all common material combinations and material features, from paper to transparent and metallised labels
- Also suitable for booklets and foldouts due to the large 4 mm jaw
- Extended carriage that is easily replaced for processing labels with oversize widths

Maximum reliability and availability

- **New and unique**
  ALC (auto level control) function: maximum function reserve due to independent online optimisation of the switching threshold and thus reliable detection even under production-related differences in materials
- Automatic label checking during the teach event





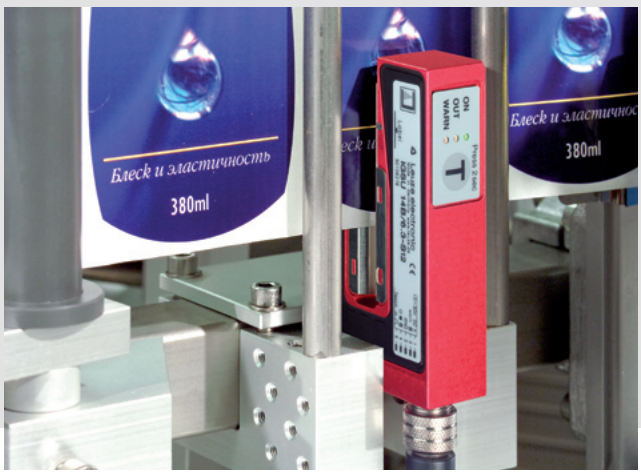
Technical data

Physical data	
Mouth width	4 mm
Mouth depth	68 mm
Minimum label length	5 mm
Minimum label width	10 mm
Smallest label gap	2 mm
Conveyor speed	240 m/min
Max. permissible conveyor speed during Teach	50 m/min
Response time	100 µs
Repeatability	± 0,2 mm*
Indicators and switching output	
Green LED	ready
Yellow LED	Switching point in the label gap
Red LED	Teach error, function error
Switching outputs IGSU 14B	1 push-pull switching output pin 4: PNP light switching, NPN dark switching 1 push-pull switching output as warning output Pin 2: active low (standard operation low, event high)
Switching output function	Light/dark switching, adjustable

*Depending on conveyor speed, label length and spacing between labels

High-speed labelling in the beverage industry.

Reliable detection of a wide range of labels.



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Cylindrical Sensors, Mini Sensors, Fibre Optic Amplifiers
Measuring Sensors
Special Sensors
Light Curtains
Forked Sensors
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Safety Systems
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Safety Laser Scanners
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Transceivers and Multi Light Beam Safety Devices
Single Light Beam Safety Devices
AS-i-Safety Product Range
Safety Sensor Technology for PROFIBUS DP
Safety Switches and Safety Locking Devices
Safety Relays and Safety Interfaces
Sensor Accessories and Signal Devices
Safety Engineering Software
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