

ULTRASONIC SENSORS US

SWITCHING AND / OR MEASURING



ULTRASONIC - A SUCCESS PRINCIPLEWITH MANY BENEFITS.

ALL PRACTICAL BENEFITS - UNIFIED IN ONE SENSOR



IO-Link - for future-proof communication

- Constant monitoring of device functions and parameters
- Extended setting options



Reflective mode - the guarantee of success in the background

The sensor is taught in to the background, not to the objects to be detected, so it only has to detect a deviation from the background.

- Detection regardless of surface
- Much more stable, simpler processes



A clear switch point due to temperature compensation

Even when the temperature fluctuates, constant measurement accuracy thanks to integrated temperature compensation – which can be enabled and disabled.

- Always a clear switch point, even if temperatures change slowly
- Constantly high measurement accuracy for optimum process quality
- Shall be disabled if temperatures change rapidly
- Maximum system availability and reduction in machine downtimes



Ultra-simple teach-in: 3 teach modes and other settings

- Window mode
- 2-point mode
- Auto-teach mode
- The output can be switched



Compact and short from M8 to Q12 - threaded and square designs

- Simple machine integration, thanks to extremely small and short housing dimensions
- Maximum flexibility even in tight installation spaces
- Retrofit perfectly suited to retrofitting or replacement

THE SWITCHING ULTRASONIC RANGE. ULTRA-SIMPLE - ULTRA-FLEXIBLE.

STABLE PROCESSES DUE TO DI-SORIC ULTRASONIC SENSORS.



due to different designs and configurable operating ranges

Maximum flexibility

Stable applications

due to resistance to dirt and insensitivity to noise, independent surface properties such as color



thanks to narrow sound beams and optional reflective mode



Durability and a long service life

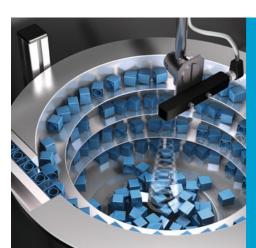
due to metal housing, plugs and IP67

Quickly ready for operation

due to simple teach-in and IO-Link

Reliability

due to high tolerance of contamination and temperature compensation



Level control in the hopper UST Q12

The ultrasonic sensor reliably monitors the fill level in the vibratory feeder.

Thanks to its square design, it can even be installed directly on the hopper wall of step feeders.



Accumulation monitoring for boxes

US 12 / US 18

The long ranges achieved by the ultrasonic sensor, which works with IO-Link, enable it to reliably identify accumulations and gaps between boxes being transported, ensuring that packages are transported smoothly and without disruption.



Detecting the presence of PCBs

UST 08

Its unique M8 design and extremely narrow sound beam make the UST08 the perfect problem-solver where classic proximity switches reach the limits of their scanning ranges. For example, it can be used to detect the presence of PCBs at a greater distance (up to 80 mm).

THE MEASURING ULTRASONIC RANGE. ANALOG OUTPUT AND MULTI-I/O.

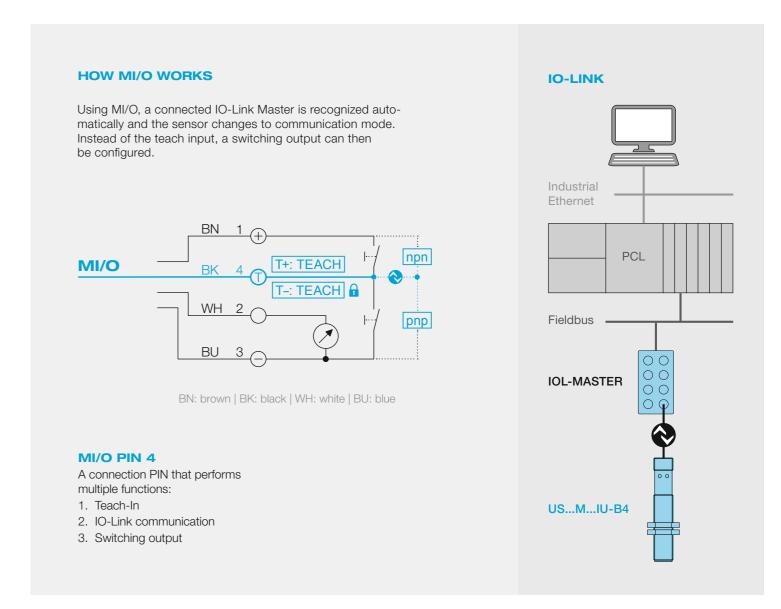
JUST ONE SENSOR FOR BOTH MEASUREMENT TASKS AND OTHER TASKS FOR WHICH ANOTHER SENSOR WOULD BE REQUIRED.

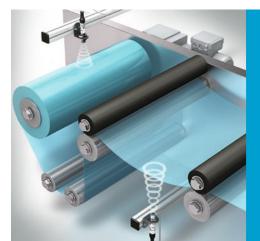


THE WORLD'S FIRST MULTI-I/O

IN ONE SENSOR: MI/O.

TRUE MULTI FUNCTIONALITY AND A FULL RANGE OF FUNCTIONS, WITH ONLY 4 PINS.





Roller diameter check US 18 M 1500 IU-B4

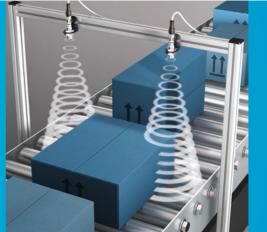
Sag check (speed regulation) US 12 M 400 IU-B4

Using MI/O enables optimal planning of roller replacement through continual sag checks, monitoring and a signal over a configurable switching output if the roller thickness drops below the set minimum.



Container monitoring US 18 M 800 IU-B4

The container fill level can be monitored using an analog signal – the additional switching output can be used as a warning output if a critical level is exceeded, or no longer achieved, to control filling or perform an emergency stop, by starting a dry run, to protect the machine.

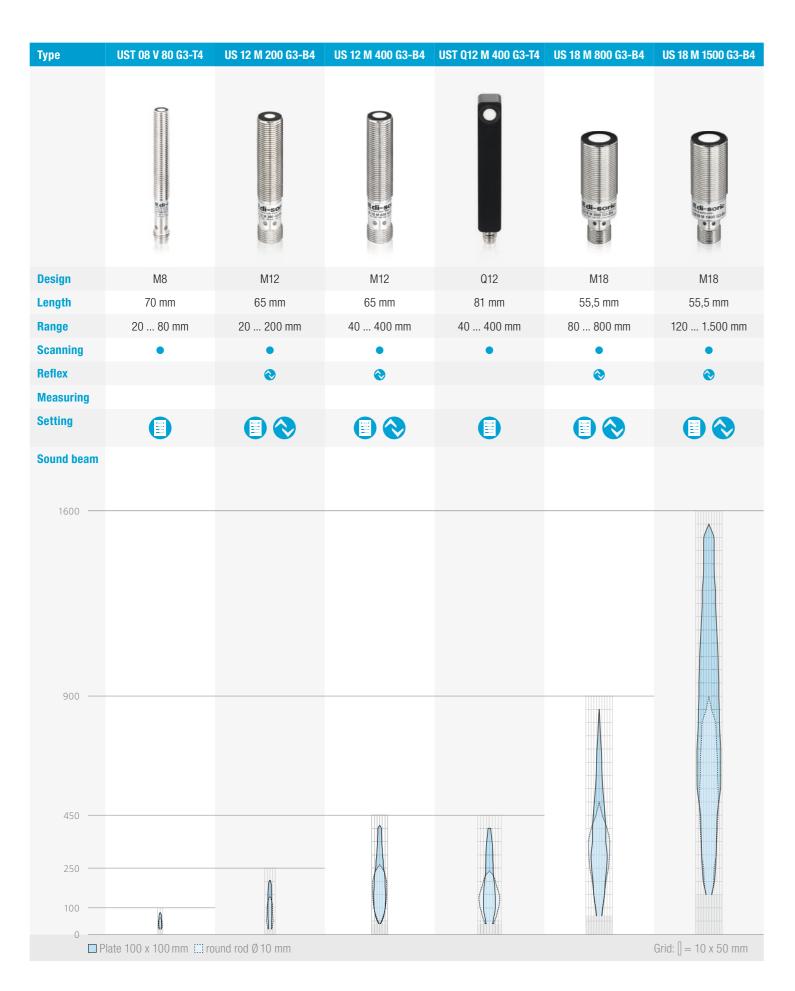


Box height measurement US 18 M 1500 IU-B4

The classic analog application: use this ultrasonic sensor to measure different box heights reliably, using analog signals, no matter what their surface properties, such as color, at a working distance of 1.5 m.

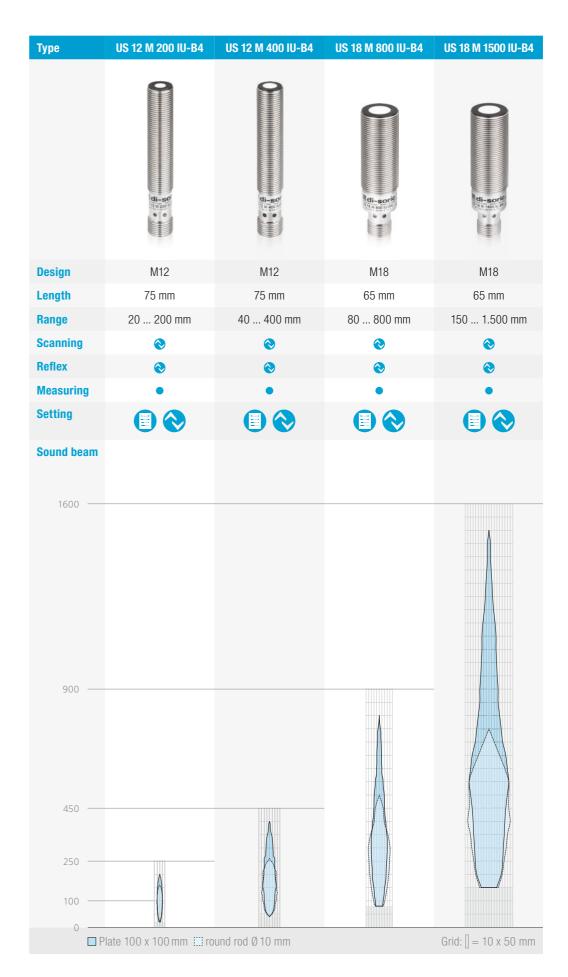
ULTRASONIC SENSORS US

SWITCHING



ULTRASONIC SENSORS US

MEASURING/SWITCHING



CAN BE USED ANYWHERE:

IOL-MASTER IO-LINK DEVICE TOOL



1 Port >> USB

- Universal IO-Link Master with PC software
- For devices with IODD Specification 1.0.1 and 1.1
- Status LED for OK-Link and SIO mode
- M12 connection for devices
- Up to 80 mA over USB connection
- Up to 1 A with AC adapter



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