

Ultrasonic Sensors





Application examples:

- Fill level measurement (min./max.)
- Distance monitoring
- Analysis of bulk solids
- Quality testing
- Level control
- Sag control of films and paper
- Detection of dark, light-absorbing material
- Detection of pierced circuit boards
- Wire break monitoring
- Detection of seals and packaging

Order number	UMD402U035	UMD123U035	UMF402U035	UMF303U035
Working range	50400 mm	1001200 mm	50400 mm	2003000 mm
Supply voltage	Analog outpu	t: 1830 VDC	Analog outpu	ut: 1830 VDC
Switching frequency	20 Hz	7 Hz	20 Hz	3 Hz
Temperature range	-25	.60 °C	-25.	60 °C
Switching outputs		1		1
Analog output	0	10V	Analog output (010 V/420 mA)
Housing material	Stainle	ss steel	Stainle	ess steel
Degree of protection	IP	67	IF	P67

Design M18×1: UMD

• Synchronous mode

Stainless steel housing

Control panel

Design M30×1.5: UMF

- Synchronous mode
- Multiplex mode
- Four-digit 7-segment display
- Stainless steel housing



Order number	UMS123U035	UMS303U035	UMS603U035		
Working range	1001200 mm	2003000 mm	3006000 mm		
Supply voltage	Analog output: 1830 VDC				
Switching frequency	7 Hz	3 Hz	1.5 Hz		
Temperature range	−2560 °C				
Switching outputs	2				
Analog output	Analog output (010 V/420 mA)				
Housing material	Plastic				
Degree of protection	IP67				
Design	81×55×30 mm	81×55×47 mm	81×55×47 mm		

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The powerful ultrasonic sensors by wenglor provide reliable detection of objects - independent from material, color, transparency, and surface characteristics. Artificial light or particles in the air (dust, smoke, steam, lint, oily air) do not influence the correct sensor function.

Advantages

- · Easy setting directly on the sensor without requiring additional programming devices
- IO-link interface
- Filter for reduction of perturbations
- Temperature compensation to compensate variations in temperature
- · Housings are robust and resistant to cleaning agents
- Adjustable switching point and window
- Adjustable sonic cone

Functions

- Synchronous mode: In order to enable object recognition over a wide area, several ultrasonic sensors can be operated in immediate vicinity to each other and send out ultrasonic pulses simultaneously.
- Multiplex mode: To avoid interference of several sensors mounted in immediate vicinity to each other, the sensors send their ultrasonic pulses alternately.
- Detection mode: This feature is particularly helpful in the case of interfering objects influencing the measurement result. The ultrasonic sensor determines three objects: The object closet to the sensor, the object furthest away and the best detectable object. Depending on the application, a selection can be made from these three signals.
- Adjusting the threshold value: The higher the chosen threshold, the less sensitive the sensor is to interfering sound waves. This function can be combined with detection mode.



Design 81×55×30/47 mm: UMS

- Synchronous mode
- Multiplex mode
- Adjusting the threshold value
- Detection mode
- Graphic display
- On- and off-delay of up to 10 seconds
- Pulse duration of up to 10 seconds



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