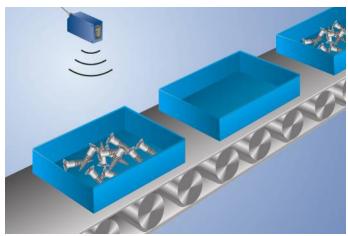
Distance Sensor

UMS123U035



- Digital and analog output
- Menu-driven settings
- Synchronous and multiplex mode
- Temperature drift eliminable

These ultrasonic sensors evaluate the sound reflected from the object. They can detect almost any object and are especially well suited for monitoring fill levels of liquids and bulk goods and for detecting transparent objects. The sensor detects objects regardless of material, state of aggregation, color, or degree of transparency. The graphics display allows for easy, menudriven sensor setup. Convenient parametrization and quick diagnosis are possible via the IO-Link interface. The sensor can only be used in reflex mode operation.



Ultrasonic Data	
Working Range	1001200 mm
Measuring Range	1100 mm
Reproducibility maximum	1 mm
Linearity Deviation	4 mm
Resolution	0,2 mm
Ultrasonic Frequency	225 kHz
	< 12 °
Opening Angle	< 12 100000 h
Service Life (T = +25 °C)	
Switching Hysteresis Electrical Data	5 mm
	18 30 V DC
Supply Voltage	
Current Consumption (Ub = 24 V)	< 30 mA 7 Hz
Switching Frequency	
Response Time	< 72 ms
Temperature Range	-3060 °C
Number of Switching Outputs	2
Switching Output Voltage Drop	< 2,5 V
PNP Switching Output/Switching Current	100 mA
Analog Output	420 mA
Synchronous Mode	up to 40 sensors
Multiplex Mode	up to 16 sensors
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Interface	IO-Link V1.0
Protection Class	III
Mechanical Data	
Setting Method	Menu (OLED)
Housing Material	Plastic, ABS
Sensing face	Epoxy resin/glass bubble mixture
Sensing face	Plastic, PBT
Sensing face	Silicone
Degree of Protection	IP67
Connection	M12 × 1; 4/5-pin
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	509,66 a
Function	
Selectable menu language	yes
Password Protection	yes
Error Output	
PNP NO	
Analog Output	ě
IO-Link	
Connection Diagram No.	183
Control Panel No.	X2
Suitable Connection Equipment No.	2 35
Suitable Mounting Technology No.	340
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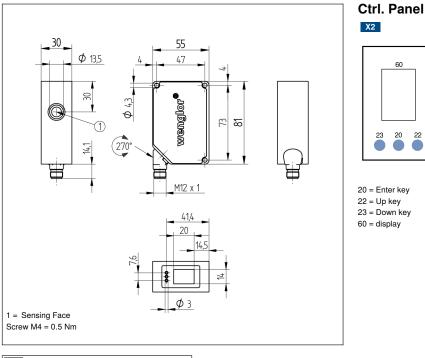
Display brightness may decrease with age. This does not result in any impairment of the sensor function.

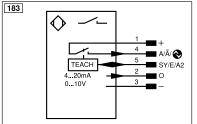
Complementary Products

Analog Evaluation Unit AW02 IO-Link Master PNP-NPN Converter BG2V1P-N-2M Software

Ultrasonic Sensors







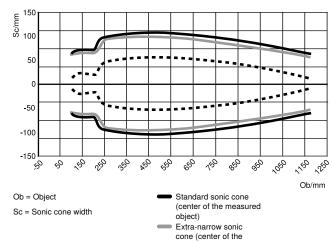




20 = Enter key 22 = Up key 23 = Down key 60 = display

Characteristic response curve

Characteristic curves show the position of the center or the front edge of the measured object (100 \times 100 mm plate) at the time of switching. UMS123U035



measured object) (front edge of the measured object)

