Non-contact distance detection

Full-metal ultrasonic sensor for harsh environments

- Continuous non-contact level measurement and object detection regardless of environmental conditions

- Resistant to aggressive media

- Long ranges of up to 2,500 mm

- Digital or analogue measured value output

- Easy parameter setting, measured value transmission and diagnostic information via IO-Link

IP69K

IO-Link

ifm – close to you!

Output	Range [mm]	Switching frequency [Hz]	Operating temperature range [°C]	Order no.
M18 · IO-Link				
2x PNP / 2x NPN	50…400	10	-10…70	**UGT300**
PNP + 4…20 mA / NPN + 4…20 mA	50…400	10	-10…70	**UGT301**
PNP + 0...10 V / NPN + 0…10 V	50…400	10	-10…70	**UGT302**
2x PNP / 2x NPN	100...1,000	6	-20…70	**UGT303**
PNP + 4…20 mA / NPN + 4…20 mA	100...1,000	6	-20…70	**UGT304**
PNP + 0...10 V / NPN + 0…10 V	100...1,000	6	-20…70	**UGT305**
M30 · IO-Link				
2x PNP / 2x NPN	250...2,500	1	-10…60	**UIT300**
PNP + 4…20 mA / NPN + 4…20 mA	250...2,500	1	-10…60	**UIT301**
PNP + 0...10 V / NPN + 0…10 V	250...2,500	1	-10…60	**UIT302**

Level monitoring in any application

Whether in tanks or silos, whether liquids, bulk material or individual objects: The universal level and distance measurement using ultrasound is reliable and accurate. However, even if there is no direct contact with the medium, aggressive vapours and fumes can severely affect the function and life of a sensor. But thanks to ifm's new full-metal ultrasonic sensor, this is now a thing of the past. From the diaphragm to the connector, the sensor is completely enclosed in resistant high-grade stainless steel. Thus, it is resistant to external influences and benefits from an extended service life. This makes it ideal for use in the food industry and other hygienic applications.

IO-Link included

Using IO-Link communication, distance values can be transmitted digitally or the measuring range can be set. Thanks to the feedback on the echo quality, the alignment of the sensor can be optimised during installation and the functional reliability can be continuously monitored.

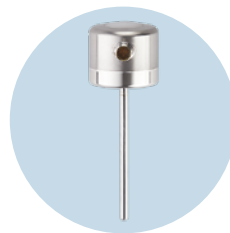| Common technical data		
Operating voltage	[V]	10…30
Current rating switching output	[mA]	100
Temperature compensation		yes
Housing material		high-grade stainless steel
Connection		M12 connector
Switching status indication		yellow
Protection rating		IP65 | IP67 IP68 | IP69K

BEST FRIENDS

USB IO-Link master
For parameter setting and analysis of devices

MVQ position sensor
Monitoring and diagnostics of quarter-turn actuators

TCC temperature sensor
Including self-monitoring for maximum process reliability

For further technical details, please visit:
ifm.com/fs/UGT300