



Position sensors

Continuous level measurement and object detection to up to 8 m



Ultrasonic sensors



Sensing range up to 8 m in M30 design

The vibrating sound transducer reduces the deposit of dirt

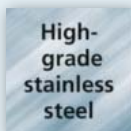
Robust stainless steel housing

Width of the sound beam adjustable via IO-Link

Easy setting via teach button or IO-Link



Ultrasound



High-grade stainless steel



TEACH-IN



IO-Link



IP 67

Long ranges

The new ifm ultrasonic sensors in M30 design are distinguished by their long range of up to 8 m. This makes them particularly suited for the detection of objects far away or for continuous level monitoring, e.g. of bulk materials or liquids. As opposed to photoelectric sensors colour, transparency or the object's or medium's surface shine do not affect sensing.

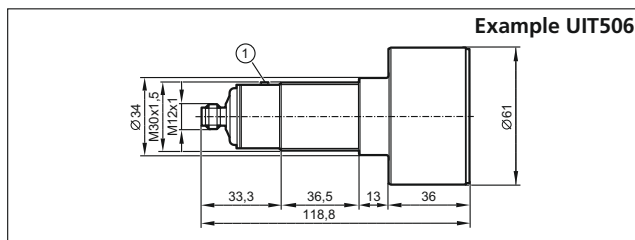
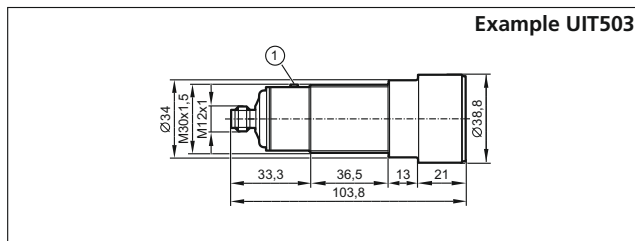
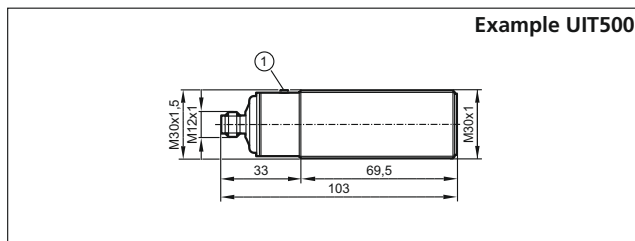
Adjustable sound beam

Due to limited space unwanted reflections at the inside of the tank may occur in level applications. This can lead to faulty measurement results. Thanks to IO-Link, the sound beam can be set individually according to the application. With IO-Link, the user is well prepared for Industry 4.0.



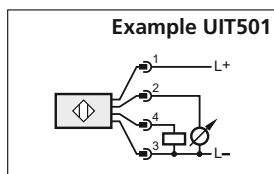
Type	Setting	Output	Operating voltage according to cULus [V DC]	Order no.	Order no.	Order no.
Ultrasonic diffuse-reflection sensor · 3-wire DC, 4-pole				3500 mm	6000 mm	8000 mm
M30 x 1.5	pushbutton, IO-Link	2 x PNP	10...30; "supply class 2"	UIT500	UIT503	UIT506
M30 x 1.5	pushbutton, IO-Link	PNP + 4...20 mA	10...30; "supply class 2"	UIT501	UIT504	UIT507
M30 x 1.5	pushbutton, IO-Link	PNP + 0...10 V	10...30; "supply class 2"	UIT502	UIT505	UIT508
M30 x 1.5	pushbutton	2 x NPN	10...30; "supply class 2"	UIT509	UIT512	UIT515
M30 x 1.5	pushbutton	NPN + 4...20 mA	10...30; "supply class 2"	UIT510	UIT513	UIT516
M30 x 1.5	pushbutton	NPN + 0...10 V	10...30; "supply class 2"	UIT511	UIT514	UIT517

Dimensions



1) Teach button

Wiring diagram



Common technical data

Current rating	[mA]	100
Switching output		
Ambient temperature	[°C]	-20...70
Temperature compensation		•
Protection rating		IP 67
Connection		M12 connector
Status indications	LED	2 x yellow
Echo	LED	1 x green

Accessories

Type	Description	Order no.
	Angle bracket for M30 design, stainless steel	E10737
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kBit/s)	E30390
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011

Connection technology

Type	Description	Order no.
	Socket, M12, 4-pole 2 m, black, PUR cable	EVC001
	Socket, M12, 4-pole 5 m, black, PUR cable	EVC002
	Socket, M12, 4-pole 2 m, black, PUR cable	EVC004
	Socket, M12, 4-pole 5 m, black, PUR cable	EVC005