



03 5278 8222

sales@factorycontrols.com.au

www.factorycontrols.com.au

65 Douro Street, North Geelong Victoria 3215

Compact ultrasonic sensors with robust metal housings



Object detection for long ranges and challenging surfaces

- Robust high-grade stainless steel housing for demanding applications
- Sensing range up to 1.2 m in M18 cube design and 2.2 m in M18 tubular design
- Vibrating sound transducer reduces the accumulation of dust and dirt deposits which can negatively impact sensor performance
- Digital and analog outputs for object detection and level applications
- Easy adjustment via pushbutton
- Retro-reflective models detect objects regardless of orientation

Ultrasonic technology

Ultrasonic sensors emit short bursts of very high frequency sound waves. When the sound waves strike an object, an echo is reflected back to the ultrasonic sensor. The time it takes for the sound to travel to the object and back is measured and converted into a distance. This information may be used for both position and level sensing applications.

Ability to solve challenging applications

Ultrasonic sensors are similar to photoelectric sensors in their ability to detect targets at long ranges. Since they operate by sensing sound, ultrasonic sensors are not subject to interference from light sources such as UV or direct sunlight. Ultrasonic sensors are capable of sensing irregular-shaped targets including objects with holes. They are particularly well suited for sensing sound-reflecting targets regardless of their color, transparency or surface reflectivity.

The solution for a wide variety of position applications

- Ideal for sensing clear objects and diffuse sensing of targets at long ranges (up to 2.2 meters), such as automobile windshields.
- Detects full or empty positions in stack height control applications.
- Senses position of the material loop so the roller speed can be adjusted as required for non-contact web loop control.
- Detection of roll diameters to determine when the material will run out; or for stamping applications where shiny metal surfaces can be challenging to detect with photoelectric sensors.
- Well suited for level applications with liquids and materials with uneven surfaces such as granules and powders.



ifm's ultrasonic sensors detect targets regardless of their color, transparency or surface reflectivity.



Type	Housing Length/ Dimensions	Setting	Output	Part No.	Part No.	Part No.	Part No.	Part No.	List Price (USD)	
Diffuse-reflection sensor · 4-wire DC				300 mm	800 mm	1200 mm	1600 mm	2200 mm		
	M18 Cube	53 x 20 x 38 mm	Pushbutton	PNP + 4...20 mA	UGT580	UGT582	UGT584	–	–	\$164.00
	M18 Cube	53 x 20 x 38 mm	Pushbutton	PNP + 0...10 V	UGT581	UGT583	UGT585	–	–	\$164.00
	M18 Cube	53 x 20 x 38 mm	Pushbutton	NPN + 4...20 mA	UGT586	UGT588	UGT590	–	–	\$164.00
	M18 Cube	53 x 20 x 38 mm	Pushbutton	NPN + 0...10 V	UGT587	UGT589	UGT591	–	–	\$164.00
Diffuse-reflection sensor · 4-wire DC				300 mm	800 mm	1200 mm	1600 mm	2200 mm		
	M18	98 mm	Pushbutton	2 x PNP	–	–	–	UGT509	UGT512	\$198.00
	M18	98 mm	Pushbutton	PNP + 4...20 mA	–	–	–	UGT510	UGT513	\$198.00
	M18	98 mm	Pushbutton	PNP + 0...10 V	–	–	–	UGT511	UGT514	\$198.00
	M18	98 mm	Pushbutton	2 x NPN	–	–	–	UGT515	UGT518	\$198.00
	M18	98 mm	Pushbutton	NPN + 4...20 mA	–	–	–	UGT516	UGT519	\$198.00
	M18	98 mm	Pushbutton	NPN + 0...10 V	–	–	–	UGT517	UGT520	\$198.00
Retro-reflective sensor · 4-wire DC				300 mm	800 mm	1200 mm	1600 mm	2200 mm		
	M18	98 mm	Pushbutton	PNP	–	–	–	UGR500	UGR501	\$188.00
	M18	98 mm	Pushbutton	NPN	–	–	–	UGR502	UGR503	\$188.00

Accessories

Type	Description	Part No.	List Price (USD)
	Short swivel bracket for UGT, 316 stainless steel bracket, Die cast zinc clamp	E20718	\$12.00
	Tall swivel bracket for UGT, 316 stainless steel bracket, Die cast zinc clamp	E20719	\$11.00
	Rail mount package, Short swivel bracket for UGT, 316 stainless steel bracket, Die cast zinc clamp and cube	E20867	\$18.00
	Rail mount package, Tall swivel bracket for UGT, 316 stainless steel bracket, Die cast zinc clamp and cube	E20866	\$18.00

See www.ifm.com/us for additional accessories.

Cordsets

Type	Description	Part No.	List Price (USD)
	M12 Micro DC, (4-pin) 2 m, PUR	EVC001	\$9.95
	M12 Micro DC, (4-pin) 5 m, PUR	EVC002	\$13.50
	M12 Micro DC, (4-pin) 2 m, PUR	EVC004	\$9.95
	M12 Micro DC, (4-pin) 5 m, PUR	EVC005	\$13.50

Technical Specs

Operating voltage	10...30 V DC
Current consumption	100 mA
Operating temperature	-4...158 °F (-20...70 °C)
Temperature compensation	yes
Protection	IP 67
Connection	M12 connector
Status indication	Yellow LED
Echo	Green LED

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65 Douro Street, North Geelong Victoria 3215

ifm – close to you!

ifm efector USA
1100 Atwater Drive
Malvern, PA 19355
800-441-8246
www.ifm.com/us

ifm efector Canada
2233 Argentia Road, Suite 104
Mississauga, ON L5N 2X7
855-436-2262
www.ifm.com/ca

ifm efector Mexico
Ave. Arq. Pedro Ramírez Vázquez
200-4, Planta Baja Col. Valle Oriente
San Pedro Garza García, N.L. 66269
01-800-813-4363
www.ifm.com/mx