

ifm efector



Sanitary Point Level Sensors

High frequency capacitance technology suppresses foam and deposit build-up

Level sensors
www.ifm.com/us/lmt



LMT Point Level Sensors – reliably suppress residues, splashes and foam

ifm's LMT Series point-level sensor is designed to monitor the level of liquids and viscous media in food and beverage applications.

The sensor uses high-frequency capacitance technology that eliminates false tripping due to residue buildup.

Models are available for reliably sensing specific types of media and provide plug-and-play installation.

Meets food and beverage sanitary requirements

The sensor's 316 stainless steel body and smooth food-grade PEEK sensing tip ensures chemical compatibility even with the harshest cleaning agents.

The LMT sensor attaches to various mounting adapters to provide a true sanitary mounting system.

Innovative design

Microprocessor controlled high frequency capacitance spectrum profiling technology suppresses foam and residue build-up.

Reliable alternative to tuning forks

No mechanical components to bend or bridge. A direct drop-in replacement for troublesome fork sensors.

Sanitary design

FDA approved 316L stainless steel housing and PEEK sensing tip construction create a seal-free design.

Washdown rated IP 69K

Designed to perform in the harshest environments of hot high pressure water and caustic chemicals.

Flexible installation

A full range of process connections and probe lengths cover a wide range of applications.

Ready to use

Factory preset for plug-and-play of the most commonly used media makes installation fast and easy.

Programmable with IO-Link

Adjustable sensitivity allows for use with a broad range of media types.



The LMT sensor is ideal for pipe level applications and eliminates obstructions in the flow path that reduce throughput.



For more information, such as technical data, application videos or prices please go to:

www.ifm.com/us/lmt





Designed and tested to withstand the harshest sanitary environments

Build-up – no problem!



The LMT sensors reliably suppress residues, splashes, foam and media such as mayonnaise or ketchup. For special applications, the sensitivity can be set via IO-Link and the LineRecorder Sensor.

High frequency capacitance technology suppresses foam and residue build-up

One-piece construction prevents liquid ingress

Programmable switchpoints using LineRecorder application software

Bright LEDs indicate output status

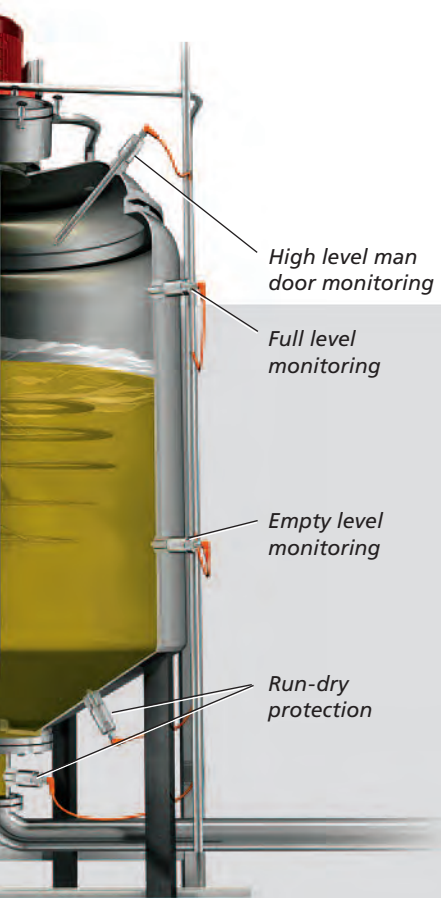
PEEK-to-metal sanitary seal meets 3A requirements

PEEK sensing face resists media build-up and withstands the harshest chemicals

A variety of process fittings are available for application flexibility

Robust 316 stainless steel housing ensures chemical compatibility with the harshest cleaners

Cordsets designed for washdown environments



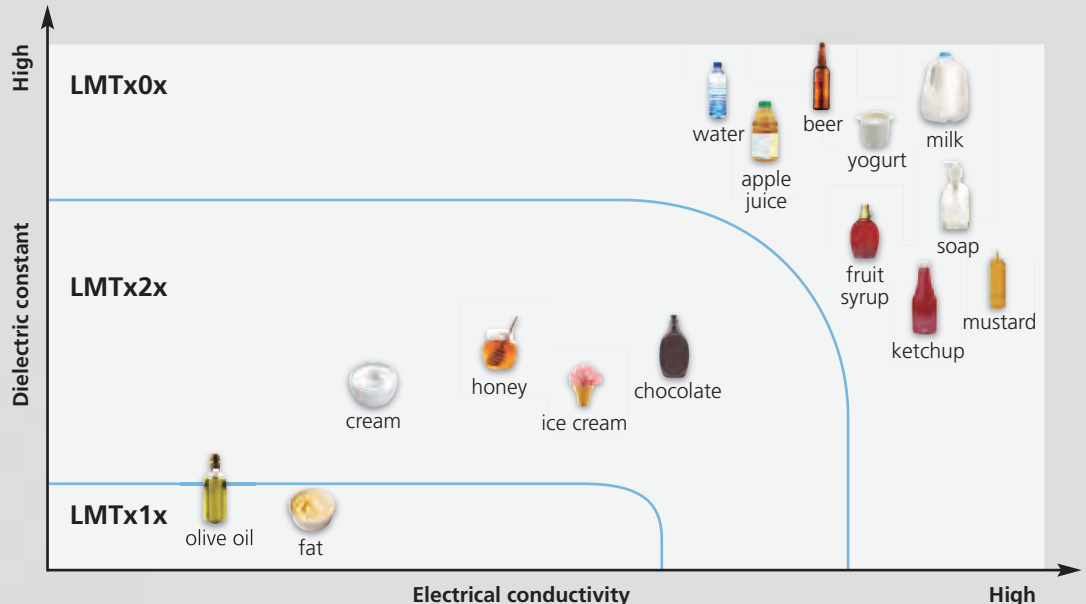
High level man door monitoring

Full level monitoring

Empty level monitoring






Run-dry protection

LMT models for specific media types







IO-Link LMT sensors are factory set for different types of media. Each sensor's sensitivity, however, can be set for any media via IO-Link and the LineRecorder Sensor. The Sensor software simplifies parameter setting and monitoring of different sensors.

Product selection guide DC

Type	Process Connection (Sanitary)	Insertion Length (mm)	Factory Default Media Setting	Programmable	Medium temperature water-based	Medium temperature oil-based	Part No.	List Price (USD)
	G 1/2	12	Water-based	No	32...185 °F	32...212 °F	LMT100	\$212.00
	G 1/2	12	Oil/powder-based	No	32...185 °F	32...212 °F	LMT110	\$212.00
	G 1/2	12	Dissolved sugars	Yes	-40...185 °F	-40...212 °F	LMT121	\$212.00
	G 1/2	153	Water-based	Yes	-4...185 °F	-4...212 °F	LMT104	\$245.00
	G 1/2	253	Water-based	Yes	-4...185 °F	-4...212 °F	LMT105	\$250.00
	G 1/2	38	Water-based	Yes	-4...185 °F	-4...212 °F	LMT102	\$219.00
	G 3/4	28	Water-based	Yes	-4...185 °F	-4...212 °F	LMT202	\$219.00
	G 1	38	Water-based	Yes	-4...185 °F	-4...212 °F	LMT302	\$224.00



Accessories for G 1/2 sanitary process connection (LMT1xxx)

Type	Description high-grade stainless steel	Part No.	List Price (USD)
	Welding adapter for tanks with leakage port, 3A	E43309	\$43.00
	Welding adapter for pipes with leakage port, 3A	E43310	\$48.00
	1.5" tri-clamp adapter, 3A	E43311	\$74.00
	2" tri-clamp adapter, 3A	E43312	\$96.00
	Welding adapter for tanks	E43300	\$38.00
	Welding adapter for pipes	E43301	\$44.00
	G 3/4 BSPP adapter for tuning fork replacement	E43302	\$46.00
	G 1 BSPP adapter for tuning fork replacement	E43303	\$79.00

Technical Specs

Operating voltage	18...30 V DC
Current rating	100 mA
Medium temperature max	302 °F (max. 1 h)
Housing materials	316L stainless steel
Materials wetted parts	PEEK PEEK, 316L stainless steel, Viton™: LMT104, LMT105
Protection	IP 68 / IP 69K, III
Ambient temperature	-40...185 °F
Approvals	FDA, EHEDG 3A, FDA, EHEDG: LMT100, LMT102, LMT110, LMT121

Cordsets

Type	Description	Part No.	List Price (USD)
	M12 Micro DC, 5 m, PVC cable	EVT001	\$19.00
	M12 Micro DC, 10 m, PVC cable	EVT002	\$22.00
	M12 Micro DC, 5 m, PVC cable	EVT004	\$19.00
	M12 Micro DC, 10 m, PVC cable	EVT005	\$22.00

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