



Position sensors and object recognition

# Inductive sensors for applications in cheese plants.



Increased lifetime in steam at 100 °C.

- High ingress resistance  
IP 68 / IP 69K.
- Food-grade housing materials:  
high-grade stainless steel / Peek.
- Operation in a wide temperature range:  
0...100 °C
- Resistant to temperature shocks.
- Resistant to cleaning agents.

High-grade stainless steel	IP 68 IP 69 K	Operating temperature up to 100°C	PEEK
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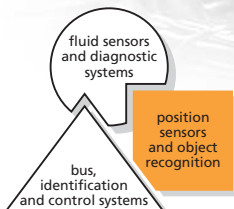
## Lifetime

In some applications in the food industry inductive sensors are often subjected to steam and aggressive cleaning agents. ifm's extensive quality tests have been complemented by the steam boiler test.

## Steam boiler test

In this test, the sensors are subjected to 100 °C steam at overpressure. This test is based upon the conditions given in the applications. The suitability for the applications can thus be tested.






In contrast to common sensors, this T-series is distinguished by a longer lifetime.



**Applications:**  
Inductive sensors for use  
in cheese plants

Dimensions Length [mm]	Sensing range [mm]	Output function	Electrical design	Operating voltage [V]	Switching frequency [Hz]	Order no.
<b>Type M12</b>						
L = 45	2 f	NO PNP	3-wire	10...36 DC	700	IFT229
L = 50	4 nf	NO PNP	3-wire	10...36 DC	700	IFT230
L = 70	2 f	NO PNP	3-wire / 2-wire	10...36 DC	500	IFT231
L = 70	4 nf	NO PNP	3-wire / 2-wire	10...30 DC	700	IFT232
<b>Type M18</b>						
L = 46	5 f	NO PNP	3-wire	10...36 DC	500	IGT237
L = 51	8 nf	NO PNP	3-wire	10...36 DC	300	IGT238
L = 70	5 f	NO PNP	3-wire / 2-wire	10...36 DC	400	IGT239
L = 70	8 nf	NO PNP	3-wire / 2-wire	10...30 DC	300	IGT240
<b>Type M30</b>						
L = 50	10 f	NO PNP	3-wire	10...36 DC	100	IIT223
L = 50	15 nf	NO PNP	3-wire	10...36 DC	100	IIT224
L = 70	10 f	NO PNP	3-wire / 2-wire	10...36 DC	100	IIT225
L = 70	15 nf	NO PNP	3-wire / 2-wire	10...36 DC	100	IIT226





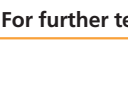

**Accessories**

Type	Description	Order no.
	Angle bracket for type M12, stainless steel	<b>E10735</b>
	Angle bracket for type M18, stainless steel	<b>E10736</b>
	Angle bracket for type M30, stainless steel	<b>E10737</b>
	Mounting clip for type M12, stainless steel	<b>E11533</b>
	Mounting clip for type M18, stainless steel	<b>E11534</b>

**Common technical data**

Type IFT, IGT, IIT		
Current rating	[mA]	max. 100
Short-circuit protection, pulsed		•
Reverse polarity / overload protection		• / •
Voltage drop	[V]	< 2.5
Current consumption	[mA]	< 10 (24 V)
Protection		IP 68 / IP 69 K, II
Operating temperature	[°C]	0...100
Housing material		high-grade stainless steel (316L), Peek
Switching status	LED	yellow (4 x 90°)
Connection		M12 connector

**Connectors and splitter boxes**

Type	Description	Order no.
	M12 socket, 5 m orange, PVC cable	<b>E10662</b>
	M12 socket, 10 m orange, PVC cable	<b>E10663</b>
	M12 socket, 5 m orange, PVC cable	<b>E10700</b>
	M12 socket, 10 m orange, PVC cable	<b>E10701</b>
	M12 socket, 5 m orange, PVC cable, LED	<b>E10702</b>
	M12 socket, 10 m orange, PVC cable, LED	<b>E10703</b>

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