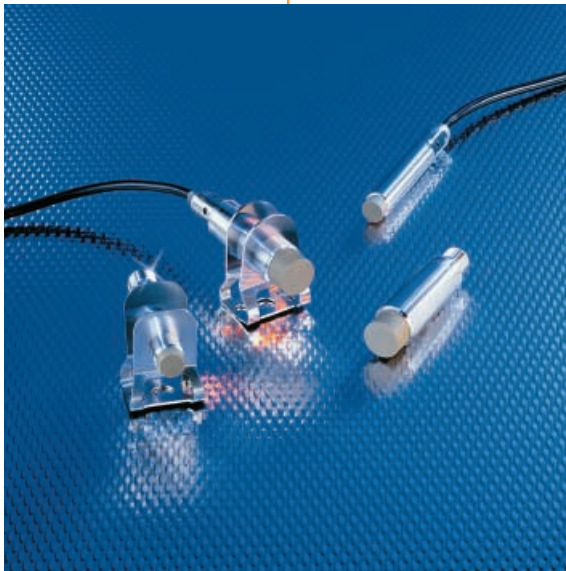


Inductive efector_m sensors for food and pharmaceuticals.

Smooth-body units Ø 12 mm and 18 mm with innovative fixing system.



- Resistant to high-pressure cleaning: IP 68 and IP 69 K.
- Wide temperature range and temperature shock resistance.
- Food-grade housing materials: High-grade stainless steel / Peek.
- Resistance to cleaning agents confirmed by the Henkel certificate.
- Mounting clip made of high-grade stainless steel: Simple and safe mounting.

Position sensors

IP 68
IP 69 K

High-grade
stainless
steel

PEEK

Increased
sensing
range



High ingress resistance

The sensors of the efector_m series are distinguished by their high ingress resistance in extreme applications as required for example in the food and pharmaceutical industries. This is evidenced by the protection ratings IP 68 and IP 69 K. Ingress resistance is also given in contact with aggressive cleaning agents (COP compatible).

Wide temperature range

The permissible application range of the sensors covers 0 °C to 100 °C. Furthermore, the units are extremely resistant to temperature shocks, which is confirmed by tests (see over).

Innovative fixing system

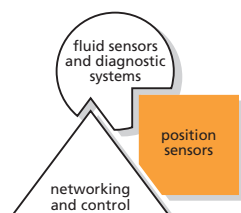
This new clamping technology enables simple and safe mounting of the sensors. Once the clamp is mounted the sensor can be fixed quickly and without any tools. Furthermore the end stop enables very simple adjustment.

Increased sensing range

The increased sensing range is ensured over the whole temperature range. In addition, the units have a setting display for easy adjustment.

Materials

The smooth bodies made of high-grade stainless steel/ 316L, the PEEK sensing face and the gold-plated contacts of the connectors meet the special requirements of the food and pharmaceutical industries.



Inductive, capacitive and magnetic proximity switches

Applications:
Developed for the extreme requirements in the food and pharmaceutical industries

Two units in one:
Innovative 3/2-wire output stage for operation of the sensor either as 2-wire or as 3-wire unit

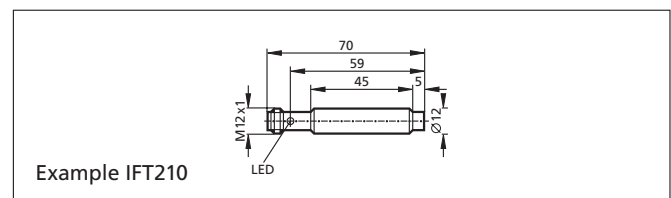
Position sensors

Electrical design	DC PNP 3/2-wire			
Connection	smooth body Ø 12 mm		smooth body Ø 18 mm	
Type	smooth body Ø 12 mm		smooth body Ø 18 mm	
Nominal sensing range s_n [mm]	7 nf		12 nf	
Output				
Order no.	IFT210	IFT211	IGT211	IGT212
Operating voltage [V]	10...30 DC			
Current rating [mA]	100			
Leakage current [mA]	< 0.9			
Minimum load current [mA]	4			
Short circuit protection, pulsed	•			
Rev. pol. protection/overl. prot.	•			
Current cons. at 24 V [mA]	12			
Function display:				
Switching status	yellow		yellow (4 x 90°)	
Setting aid	red		red (4 x 90°)	
Switching frequency [Hz]	700		300	
Operating temperature [°C]	0...100			
Protection	IP 68, IP 69K			
Housing material	high-grade stainless steel/316L			
Sensing face	PEEK			
Total length [mm]	70	79	70	79
Connection	M12 connector	PVC cable 6 m	M12 connector	PVC cable 6 m
Diagram temperature shock test with water				
Shock test with water as test medium specially designed for hygienic areas in the pharmaceutical and food industries. 60 minutes in 100 °C boiling water and then 10 minutes in 0 °C ice water: passed successfully with more than 50 cycles.				

Sockets

Socket type	Design	Order no.
ifm	5 m (PVC), M12 straight, without LED	E10662
ifm	5 m (PVC), M12 angled, without LED	E10700
ifm	5 m (PVC), M12 angled, 3 LEDs	E10702

Dimensions



Accessories

Description	Order no.
V-shaped mounting clip for type 12 mm, high-grade stainless steel	E11530
V-shaped mounting clip for type 18 mm, high-grade stainless steel	E11531



Visit our website: www.ifm-electronic.com