

Inductive efector^m sensors for the food and pharma industry.

Resistant to high-pressure cleaning and aggressive cleaning agents.



- Tight in all applications: IP 68 and IP 69 K.
- Wide temperature range and temperature shock resistance.
- Increased sensing range for higher machine uptime.
- Resistance to aggressive cleaning agents confirmed by Henkel certificate.
- Food-grade housing materials: high-grade stainless steel / PEEK.

Position sensors

IP 68
IP 69 K

High-grade stainless steel

PEEK

Increased sensing range

High tightness

The sensors of the series efector^m are distinguished by their high tightness in harsh applications, for example in the food and pharma industry. This is evidenced by the protection rating IP 68 or IP 69 K. Tightness is also ensured in contact with aggressive cleaning agents (COP compatible), which is confirmed by the Henkel certificate.

Wide temperature range

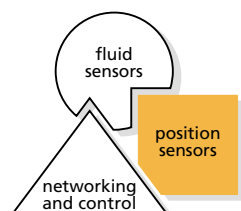
The permissible application range of the sensors covers 0°C to 100°C. Furthermore, the units are extremely resistant to temperature shocks, which is confirmed by tests (see back).

Increased sensing range

The increased sensing range increases safety thus ensuring a higher machine uptime. It is guaranteed over the whole temperature range.

Materials

The 316L housing ensures higher tightening torques for mounting. The PEEK sensing face meets the special requirements of the application. Due to the laser type label the unit can still be clearly identified after years.



Inductive, capacitive and magnetic proximity switches

Applications:
Developed for the severe requirements in the food and pharma industry

Position sensors

Electrical design	DC PNP							
Connection	3-wire							
Type	M 18				M 30			
Nominal sensing range s_n [mm]	8 f		12 nf		14 f		22 nf	
Output	—							
Order no.	IGT 206	IGT 207	IGT 208	IGT 209	IIT 209	IIT 206	IIT 207	IIT 208
Operating voltage [V]	10...36 DC							
Current rating [mA]	100							
Leakage current [mA]	—							
Minimum load current [mA]	—							
Short-circuit protection, pulsed	•							
Rev. pol. prot., overl. protection	•							
Current cons. at 24 V [mA]	<10							
Output status indication LED	yellow (4 x 90°)							
Switching frequency [Hz]	400		300		100		100	
Operating temperature [°C]	0...100							
Protection	IP 68, IP 69K							
Housing material	316L							
Sensing face	PEEK							
Total length [mm]	55		60		59			
Connection	PVC cable 6 m	PVC cable 10 m	PVC cable 6 m	PVC cable 10 m	PVC cable 6 m	PVC cable 10 m	PVC cable 6 m	PVC cable 10 m
Diagram temperature shock test with water	<p>Shock test with water as test medium specially suited for hygienic applications in the pharmaceutical and food industries. 60 minutes in 100°C boiling water and then 10 minutes in 0°C ice water: passed successfully in more than 50 cycles.</p>							

Accessories

Description	Order no.
Angle bracket for type M 18, stainless steel	E 10736
Angle bracket for type M 30, stainless steel	E 10737
Nuts M 18, for flow plate	E 19503

Dimensions

