



Capacitive sensors for detecting granulates.



Capacitive sensors especially for the plastics industry.

- Easy adjustment in the application by pressing a pushbutton.
- Automatic detection of PNP or NPN output loads.
- Normally open / normally closed freely selectable.
- Clearly visible indication of the switching status.
- Resistant to electrostatic discharge.

<p>NO/NC programmable</p>	<p>Fewer failures</p>	<p>Electronic lock</p>	<p>IP 65 IP 67</p>
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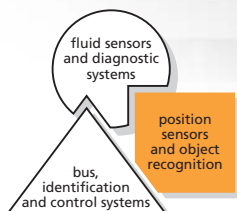
Application

Wherever plastic granulates are conveyed and processed, capacitive sensors monitor the levels in pipes and in silos or through sight glasses in loaders on injection moulding machines.

The sensor must reliably detect a wide range of different plastics.

Set-up

The new operating concept enables setting and adjustment of the output function by pressing a pushbutton. Automatic detection of the load simplifies the connection to common controllers.



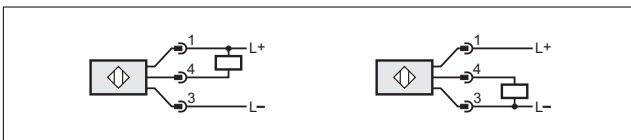
Applications:

Detection of plastic granulates and bulk material through non-metallic vessel walls.

Sensing range [mm]	Setting range [mm]	Teach button	Switching frequency [Hz]	Protection rating / class	Output function	Output stage	Order no.
Type M30 · non-flush mountable · M12 connector							
20	5...40	•	10	IP 65, IP 67,II	programmable	PNP / NPN*	KI5082
20	5...40	•	10	IP 65, IP 67,II	programmable	PNP	KI5083
Bauform M18 · non-flush mountable · M12 connector							
12	4...24	•	10	IP 65, IP 67,II	programmable	PNP / NPN*	KG5065
12	4...24	•	10	IP 65, IP 67,II	programmable	PNP	KG5066

* automatic detection of the load

Wiring diagram







Accessories

Type	Description	Order no.
	Mounting adapter for type M30, G1 1/1", POM	E11033
	Mounting adapter for type M30, G1 1/1", PVDF	E11034
	Lock nut G1 1/2", POM, for mounting adapter E11033	E11031
	Lock nut G1 1/2", POM, for mounting adapter E11034	E11032
	Mounting adapter for type M18, G 3/4", POM	E43900
	Mounting adapter for type M18, G 3/4", PVDF	E43901
	Lock nut G 3/4", POM, for mounting adapter E43900	E43902
	Lock nut G 3/4", PVDF, for mounting adapter E43901	E43903
	Mounting clamp for type M30, PBT	E10077
	Mounting clamp for type M18, PBT	E10076

Common technical data

Type KI and KG		
Operating voltage	[V]	10...30 DC
Current rating	[mA]	200
Voltage drop	[V]	< 2.5
Switch point drift of Sr	[%]	± 20
Switching hysteresis of Sr	[%]	1...15
Short-circuit protection, pulsed		•
Reverse polarity / overload protection		• / •
Operating temperature	[°C]	-25...80
Temperature of the sensing face	[°C]	+110
Material	sleeve connector pushbuttons	PBT reinforced glass-fibre PC reinforced glass-fibre TPE-U
Switching status	LED	yellow
EMC		EN 60947-5-2

Connectors and splitter boxes

Type	Description	Order no.
	M12 socket, 2 m black, PUR cable	EVC001
	M12 socket, 5 m black, PUR cable	EVC002
	M12 socket, 2 m black, PUR cable	EVC004
	M12 socket, 5 m black, PUR cable	EVC005

ifm article no. 7511246 · Printed in Germany on non-chlorine paper. · We reserve the right to make technical alterations without prior notice. · 11.2007

Position sensors and object recognition