

Level Sensors



Ex - Probe • Device category 1G, 1G/2G

Series KGFTa

Capacitive sensors up to 180 °C

For the connection to KKa 030 Ex

Ex -Device category 1G
Installation in Zone 0 (Gas)

Ex -Device category 1G/2G
Installation in partition wall
Zone 0 / Zone 1 (Gas)



Design	G1/4	G1/2
Dimensions		
Switching point sp [mm]	-8	-8
ID-No.	P21243	P21244
Type	KGFTa 125 Ex	KGFTa 150 Ex
Ex area of use	Gas: Zone 0, Partition wall Zone 0 / Zone 1	
Certificate No.	EPS 19 ATEX 1 263 X	IECEX EPS 19.0116X
Ex marking	Gas: Ex II 1/2 G Ex ia/ib IIC T6...T3 Ga/Gb Ex II 1G Ex ia IIC T6...T3 Ga	Ex ia/ib IIC T6...T3 Ga/Gb Ex ia IIC T6...T3 Ga
Ambient temperature [°C]	Gas Zone 0: T6: -20 ≤ Ta ≤ +80 T5: -20 ≤ Ta ≤ +95 T4: -20 ≤ Ta ≤ +130 T3: -20 ≤ Ta ≤ +180	
Housing material	AISI 316 Ti / PEEK	
Sealing material	PTFE / FKM	
Protection [EN 60529]	Sensor: IP 68 (3 bar) / LEMO plug system: IP 54	
Compressive strength [bar]	medium: 7 / connection: 3	medium: 25 / connection: 3
Connection	2 m PTFE-cable plug system LEMO (series B)	
The Ex-Sensors KGFTa...Ex has to be connected exclusively to the Ex-Pre-amplifier KKa 030 Ex (see page 2...).		
Accessories	Ex-Pre-amplifier KKa 030 Ex / Ex-Amplifier IKMb 123 Ex...	

Level Sensors



Ex - Preamplifier • Device category 1G

Series KKa

For capacitive sensors **KGFTa...Ex**

Supply by **IKMb 123 Ex...**

Ex - Device category 1G
Installation in Zone 0 (Gas)



Design	KKa 030 Ex	
Dimensions		
Sensitivity adjustable	•	
ID-No.	P21245	
Type	KKa 030 Ex	
Ex area of use	Gas: Zone 0	
Certificate No.	EPS 19 ATEX 1 263 X	IECEx EPS 19.0116X
Ex marking	Gas: Ex II 1 G Ex ia IIC T4...T3 Ga Ex II 2(1) G Ex ib [ia Ga] IIC T4...T3 Gb	Ex ia IIC T4...T3 Ga Ex ib [ia Ga] IIC T4...T3 Gb
Ambient temperature [°C]	Gas Zone 0:	T4: $-20 \leq T_a \leq +60$ T3: $-20 \leq T_a \leq +60$
Maximum values	U _i = 9.6 V / I _i = 50.5 mA / P _i = 121.3 mW / C _i u. L _i = negligibly small	
Housing material	AISI 316 Ti	
LED display	•	
Protection [EN 60529]	IP 54	
Connection	LEMO plug system (series B) / M12 connector	
Accessories	required sensors KGFTa... Ex and amplifiers IKMb 123 Ex...	