



Dust / Gas- | Intrinsically safe | Zone 0/20

Proximity switches

Gas-Ex Category 1
Ex ia IIC T6...T3 Ga

Dust-Ex Category 1
Ex ia IIIC T₂₀₀145°C Da

High temperature sensors +140 °C
IP 69 Resistant to high pressure cleaning



Design	M12x1		M18x1		M30x1.5	
Dimensions						
Installation flush (f) non flush (nf)	flush (f) / non flush (nf)		flush (f) / non flush (nf)		flush (f) / non flush (nf)	
Operating distance [mm]	2 f	4 nf	5 f	8 nf	10 f	15 nf
ID-No.	P31400	P31401	P31402	P31403	P31404	P31405
Type	IGEXHa 02	IGEXHa 04	IGEXHa 05	IGEXHa 08	IGEXHa 10	IGEXHa 15
Ex area of use	Gas: Zone 0 / Dust: Zone 20					
Certificate No.	EPS 17 ATEX 1 173 X EPS 22 UKEX 1 139 X		IECEx EPS 17.0087X			
Ex marking	Gas: II 1G Ex ia IIC T6...T3 Ga Dust: II 1D Ex ia IIIC T ₂₀₀ 145°C Da		Gas: Ex ia IIC T6...T3 Ga Dust: Ex ia IIIC T ₂₀₀ 145°C Da			
Ambient temperature [°C] and medium temperature	Gas Zone 0:		T6: -25 ≤ Ta ≤ +75 T5: -25 ≤ Ta ≤ +90 T4: -25 ≤ Ta ≤ +125 T3: -25 ≤ Ta ≤ +140			
	Dust Zone 20:		-25 ≤ Ta ≤ +140			
Maxium values	U _i = 12.6 V / I _i = 15.9 mA / P _i = 50 mW / C _i = 66.2 nF / L _i = 1.2 mH					
Housing material	AISI 316 Ti / PEEK					
Protection [EN 60529]	IP 68 (3 bar), IP 69					
Connection	2 m FEP-cable 2x0.34 mm ²					
Sensors for the connection to amplifiers IKMb 122 Ex..., page 3.67						
Note	proximity switches with cable length > 2 m are available on request					