

### Series IGEXPa - Proximity switches

Gas-Ex Category 1  
Ex ia IIC T6 Ga

Dust-Ex Category 1  
Ex ia IIIC T65°C Da

POLAR-Sensors -60 °C  
IP 69 Resistant to high pressure cleaning



Design	M12x1		M18x1		M30x1.5	
Dimensions						
Installation flush (f) non flush (nf)	17		24		36	
Operating distance [mm]	2 f	4 nf	5 f	8 nf	10 f	15 nf
ID-No.	P31406	P31407	P31408	P31409	P31410	P31411
Type	IGEXPa 02	IGEXPa 04	IGEXPa 05	IGEXPa 08	IGEXPa 10	IGEXPa 15
Ex area of use	Gas: Zone 0/1 / Dust: Zone 20/21					
Certificate No.	EPS 17 ATEX 1 173 X			IECEX EPS 17.0087X		
Ex marking	Gas:  II 1G Ex ia IIC T6 Ga Dust:  II 1D Ex ia IIIC T65°C Da			Gas: Ex ia IIC T6 Ga Dust: Ex ia IIIC T65°C Da		
Ambient temperature [°C] and medium temperature	Gas Zone 0: T6: -20 ≤ Ta ≤ +60 T5: -20 ≤ Ta ≤ +60 T4: -20 ≤ Ta ≤ +60 T3: -20 ≤ Ta ≤ +60		Gas Zone 1: T6: -60 ≤ Ta ≤ +60 T5: -60 ≤ Ta ≤ +60 T4: -60 ≤ Ta ≤ +60 T3: -60 ≤ Ta ≤ +60		Dust Zone 20: -60 ≤ Ta ≤ +60 Dust Zone 21: -60 ≤ Ta ≤ +60	
Maximum values	Ui = 12.6 V / li = 15.9 mA / Pi = 50 mW / Ci = 66.2 nF / Li = 1.2 mH					
Housing material	AISI 316 Ti / PTFE / PVDF					
Protection [EN 60529]	IP 68 (3 bar), IP 69					
Connection	2 m FEP-cable 2x0.34 mm <sup>2</sup>					
Sensors for the connection to amplifiers IKMb 122 Ex..., page 3.67						
Note	proximity switches with cable length > 2 m are available on request					