



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

Proximity switches

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

Dust-Ex Category 1
Ex ia IIIC T₂₀₀65°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)						
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 / Dust: Zone 20					
Certificate No.	EPS 17 ATEX 1 173 X EPS 22 UKEX 1 139 X			IECEx EPS 17.0087X		
Ex marking	Gas: Ex II 1G Ex ia IIC T6...T3 Ga Dust: Ex II 1D Ex ia IIIC T ₂₀₀ 65°C Da			Gas: Ex ia IIC T6...T3 Ga Dust: Ex ia IIIC T ₂₀₀ 65°C Da		
Ambient temperature [°C] and medium temperature	Gas Zone 0:		T6: -60 ≤ Ta ≤ +60 T5: -60 ≤ Ta ≤ +60 T4: -60 ≤ Ta ≤ +60 T3: -60 ≤ Ta ≤ +60			
	Dust Zone 20:		-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 ²					
Sensors for the connection to amplifiers IKMb 122 Ex..., page 3.67	<p>explosionsgefährdeter Bereich hazardous area nicht explosionsgefährdeter Bereich non hazardous area</p> <p>BN (+) BU (-) IKMb 122 Ex-... Betriebsspannung / Supply voltage Relais Ausgang / Relay output</p>					
Note	proximity switches with cable length > 2 m are available on request					