

### Series IGEXUa - Proximity switches

Gas-Ex Category 1  
Ex ia IIC T6 Ga

Dust-Ex Category 1  
Ex ia IIIC T80°C Da



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.	P31412	P31413	P31414	P31415	P31416	P31417
Type	IGEXUa 02	IGEXUa 04	IGEXUa 05	IGEXUa 08	IGEXUa 10	IGEXUa 15
Ex area of use	Gas: Zone 0/1 / Dust: Zone 20/21					
Certification No.	EPS 17 ATEX 1 173 X			IECEX EPS 17.0087X		
Ex marking	Gas: $\text{Ex}$ II 1G Ex ia IIC T6 Ga Dust: $\text{Ex}$ II 1D Ex ia IIIC T80°C Da			Gas: Ex ia IIC T6 Ga Dust: Ex ia IIIC T80°C Da		
Ambient temperature [°C] and medium temperature	Gas Zone 0: T6: $-20 \leq T_a \leq +60$ T5: $-20 \leq T_a \leq +60$ T4: $-20 \leq T_a \leq +60$ T3: $-20 \leq T_a \leq +60$		Gas Zone 1: T6: $-25 \leq T_a \leq +75$ T5: $-25 \leq T_a \leq +75$ T4: $-25 \leq T_a \leq +75$ T3: $-25 \leq T_a \leq +75$		Dust Zone 20: $-25 \leq T_a \leq +75$	
Maximum values	U <sub>i</sub> = 12.6 V / I <sub>i</sub> = 15.9 mA / P <sub>i</sub> = 50 mW / C <sub>i</sub> = 66.2 nF / L <sub>i</sub> = 1.2 mH					
Housing material	Br-Ni / PA					
Protection [EN 60529]	IP 67					
Connection	M12 connector					
For the connection to amplifiers IKMb 122 Ex..., page 3.67	<p>explosionsgefährdeter Bereich hazardous area</p> <p>nicht explosionsgefährdeter Bereich non hazardous area</p> <p>(1) BN</p> <p>(2) WH</p> <p>Auswertegerät Amplifier</p> <p>Betriebsspannung / Supply voltage</p> <p>Relais Ausgang / Relay output</p>					