

ATEX INCREMENTAL ENCODERS, IBM5 RANGE

Intrinsically safe encoders, specially designed for explosive GAS or DUST atmospheres

For chemical applications (painting, solvent, fragrances, rubber), textile, food processing, wood, petrochemistry...

EC type examination certificate

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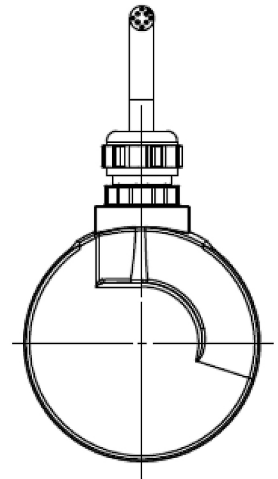
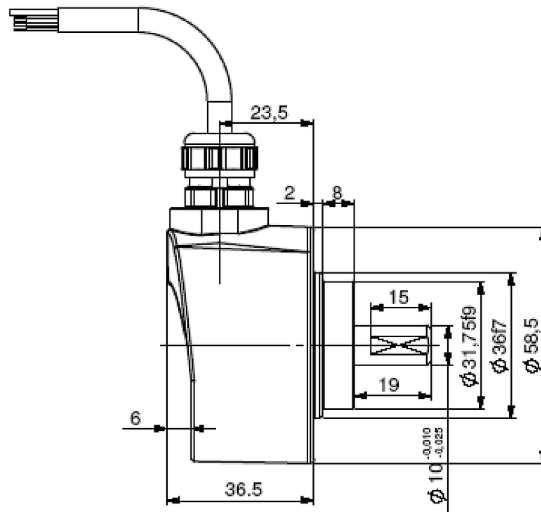
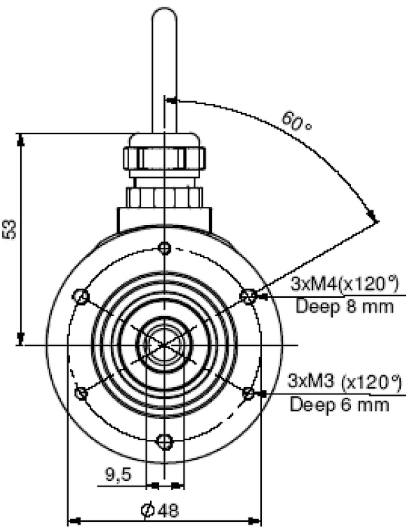
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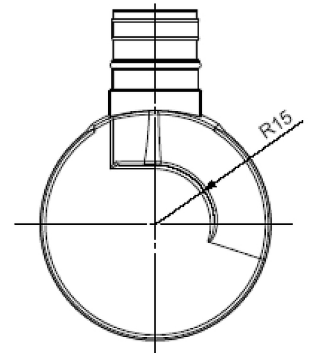
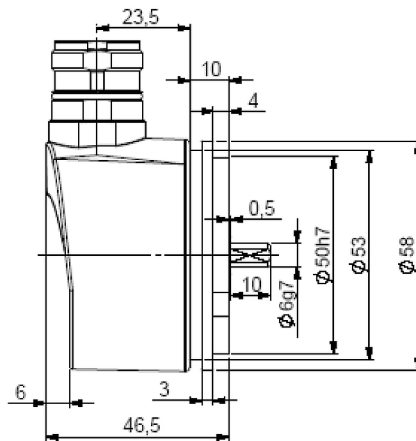
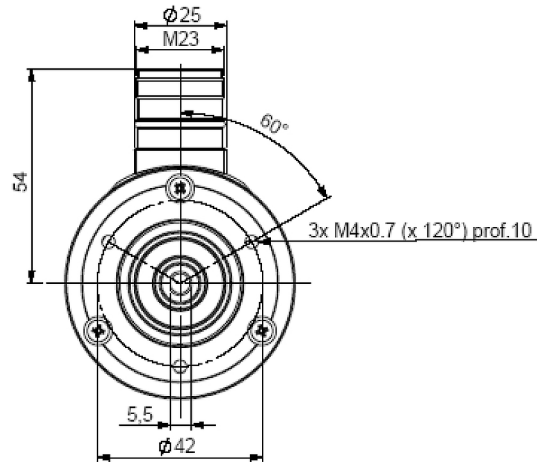
 II 1 G/D EEx ia IIB ou IIC T4 Ex iaD 20 T135°C



IBM5_10 connection G3R (radial cable)



IBM5_06 connection G6R (radial M23), flange 9500/003 mounted onto the body



Material	Cover : zinc alloy	Shock (EN60068-2-27)	≤ 500m.s ⁻² (during 6 ms)
	Body : stainless steel	Vibration (EN60068-2-6)	≤ 100m.s ⁻² (55 ... 2 000 Hz)
	Shaft : stainless steel	EMC	EN 50081-1, EN 61000-6-2
Bearings	6 000 serie	Isolation	1 000 Veff
Maximal loads	Axial : 50 N	Weight (connector)	0,400 kg
	Radial : 100 N	Operating temperature	- 30 ... + 70 °C (encoder T°)
Shaft inertia	≤ 1.10 ⁻⁶ kg.m ²	Storage temperature	- 30 ... + 100 °C
Torque	≤ 4.10 ⁻³ N.m	Protection(EN 60529)	IP 65 (IP67 with flange option)
Permissible max.speed	12 000 min ⁻¹	Theoretical mechanical lifetime 10 ⁹ turns (F _{axial} / F _{radial})	
Continuous max. speed	9 000 min ⁻¹	25 N / 50 N : 99	50 N / 100 N : 12