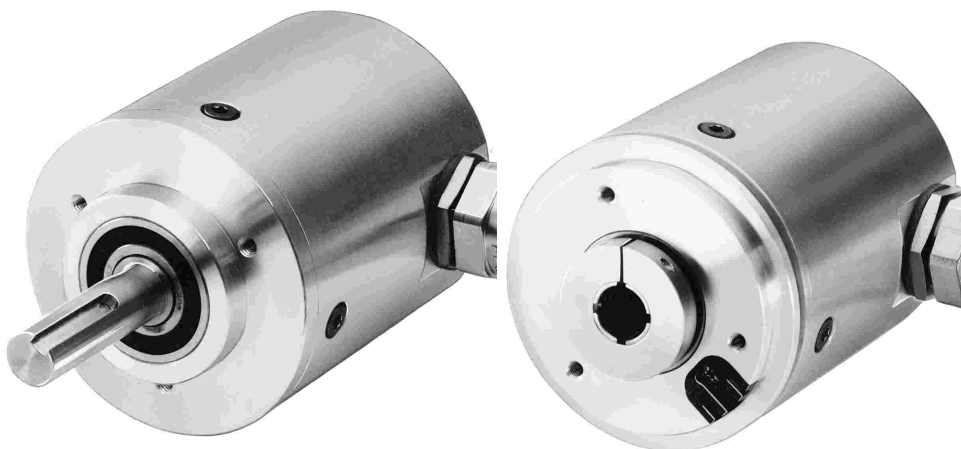


# AWI 70 Ex HWI 70 Ex

Compact version, diameter 70 mm in design  
 "Compression proof metal protection" with  
 EX II 2G EEx d II T 6 (PTB02 ATEX 0102)  
 Electronic temperature and  
 ageing compensation  
 Short circuit proof outlets  
 Over-voltage and reserve battery protection  
 on the operating voltage (at  $U_B = 10 - 30$  VDC)  
 Diameter of the shafts 12 mm  
 Resolution up to 5000 impulses



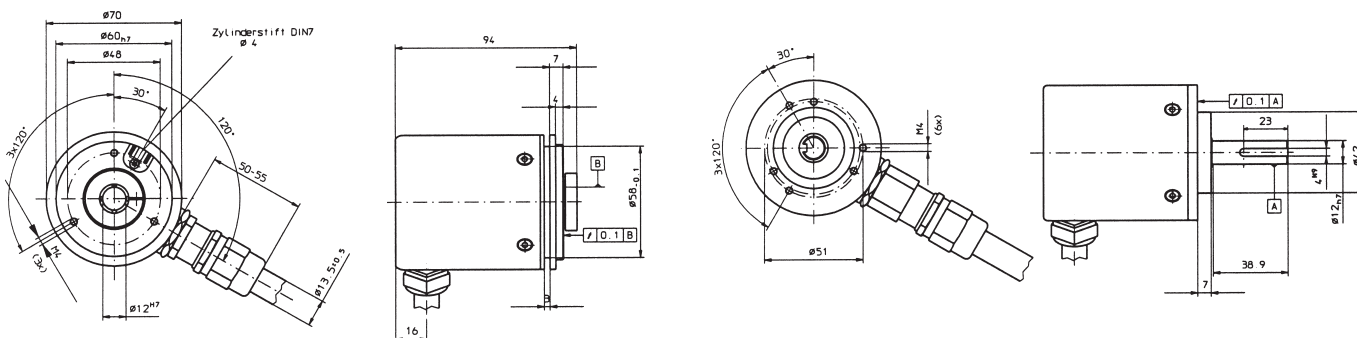
## Mechanical Specifications:

Revolution speed: max. 6000 U/min.\*  
 Inertia moment of the rotor : ca.  $8 \times 10^{-6}$  kgm<sup>2</sup>  
 Permissible shaft load:(radial) 20 N (at shaft end)<sub>1</sub>  
 Permissible shaft load:(axial) 10 N  
 Motor starting torque (25°C): < 0,05 Nm  
 Weight: ca. 0,9 kg  
 Protective system acc. to EN 60529: IP 64

Working temp. range : -20° C bis + 70° C  
 Shaft: Stainless steel  
 Thermal shock resistance  
 acc. to DIN - IEC 68-2-27 1000 m/s<sup>2</sup>, 6 ms  
 Vibration resistance  
 acc. to DIN - IEC 68-2-6 100 m/s<sup>2</sup>, 10. . . .2000 Hz

\* under continuous operation 1500 R/min.  
 1) with shaft version

## Mechanical Dimensions:



### Assembly notes:

Flange and shaft of encoder and actuation must not be simultaneously rigidly coupled together!  
 With the hollow shaft version, the torque converter bearing offers the easiest system of flange-mounting (see dimension pictures).

impulse count	permissible radial deviation of the actuation shaft provides an accuracy of +/- 0,5 Bit when using the torque converter bearing.
1000	+/- 0,08
2500	+/- 0,035
5000	+/- 0,017

### Please note !

When installing, all valid norms for the assembly of electrical appliances in potentially explosive areas must be complied with!  
 Manipulation of the encoder (opening, mechanical alterations) will lead to a loss of the Expermit and the guarantee cover!  
 The installer takes all responsibility for any attributable consequences!

