

## General information

PWS37620260216

The encoder EE-1000PR is a solid shaft rotary incremental encoder. Designed for industrial applications with high mechanical resistance requirements, it supports high radial and axial shaft load. This encoder can be linked to the customer fixing flange with three M4 screws or with three fixing clamps.



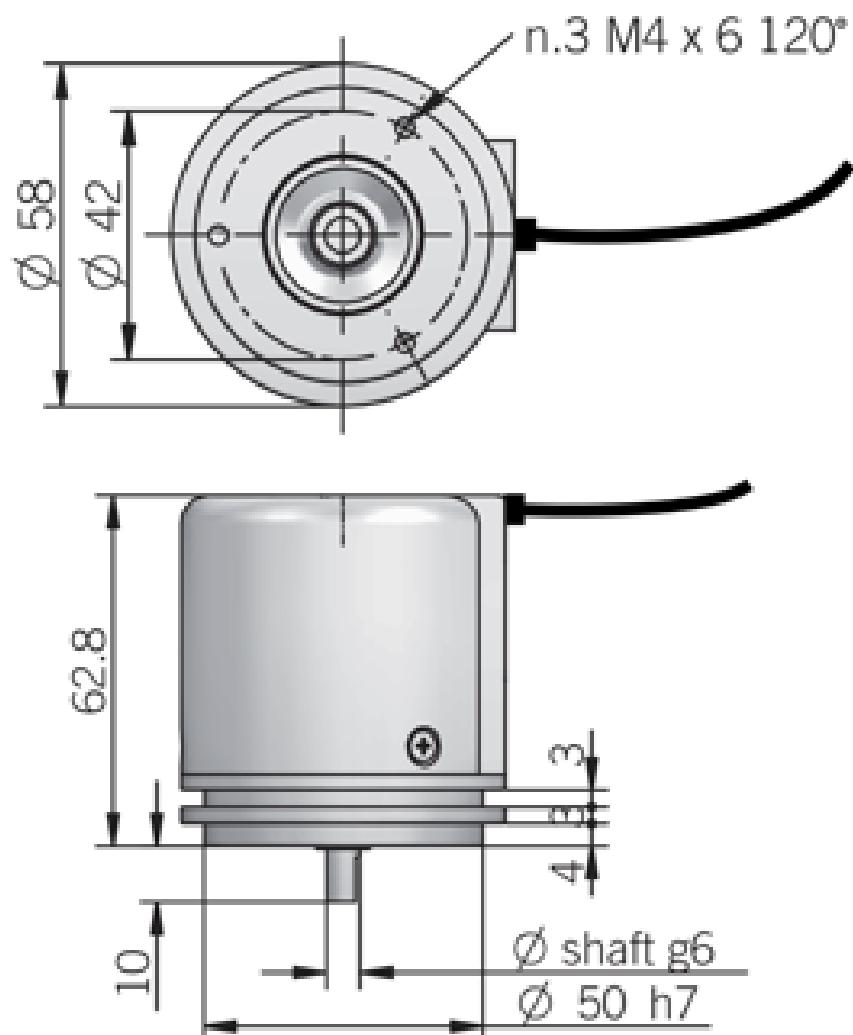
All indicated data may be changed without notice.  
All the measures indicated are expressed in millimeters (mm).

## Technical specifications

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<b>Operating temperature:</b>	-25° ... +85°C (measured on the transducer flange, condensation not allowed)
<b>Weight:</b>	350 g (12,35 oz)
<b>Bearings Life:</b>	10 <sup>9</sup> revolutions
<b>Bearings:</b>	n.2 ball bearings
<b>Housing Material:</b>	PA66 glass fiber reinforced
<b>Shaft Material:</b>	AISI 303 stainless steel
<b>Bearing Stage Material:</b>	EN-AW 2011 aluminum
<b>Starting Torque (at +20°C / +68°F):</b>	< 0,06 Nm (8,50 Ozin)
<b>Moment of Inertia:</b>	1,5 x 10 <sup>-6</sup> kgm <sup>2</sup> (36 x 10 <sup>-6</sup> lbft <sup>2</sup> )
<b>Vibration:</b>	10 G, 10 ... 2000 Hz (IEC 60068-2-6)
<b>Shock:</b>	50 G, 11 ms (IEC 60068-2-27)
<b>Max Shaft Load:</b>	10 N axial / 20 N radial (maximum load for static usage)
<b>Max Rotation Speed:</b>	3000 rpm / 70° C - 2000 rpm / 85° C
<b>Enclosure Rating:</b>	IP 66 (IEC 60529)
<b>Shaft Diameter:</b>	ø 6
<b>RoHS:</b>	according to 2014/30/EU directive
<b>Electromagnetic Compatibility:</b>	according to 2014/30/EU directive
<b>Counting Direction:</b>	A leads B clockwise (shaft view)
<b>Power Draw Without Load:</b>	800 mW max
<b>Electrical Interface:</b>	push-pull
<b>Storage temperature:</b>	-25° ... +70°C (condensation not allowed)
<b>Power supply:</b>	5/28 = 4,5 ... 30 V DC (reverse polarity protection)
<b>Resolution:</b>	1000 ppr

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**Cable Measures**

LENGTH 5 m  
DIAMETER 5,3 mm  
CORES 4 x 0,20 mm<sup>2</sup>

**Electrical Connection**

BLACK (BIG)	Shield
GREEN	Channel A
RED	+ Excitation
YELLOW	Channel B
BLACK	- Excitation

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