

## MAIN FEATURES

It is a no-contact encoder with through hollow shaft up to 35 mm. The compact size (only 11 mm of axial thickness), the high IP grade and resistance to vibrations make this product an excellent solutions for heavy duty applications.

- Up to 4096 ppr
- Line driver / push pull output
- Fixing with Star-ring
- 8000 rpm max
- IP 67 protection degree
- Working temperature: -20° ... +85°C

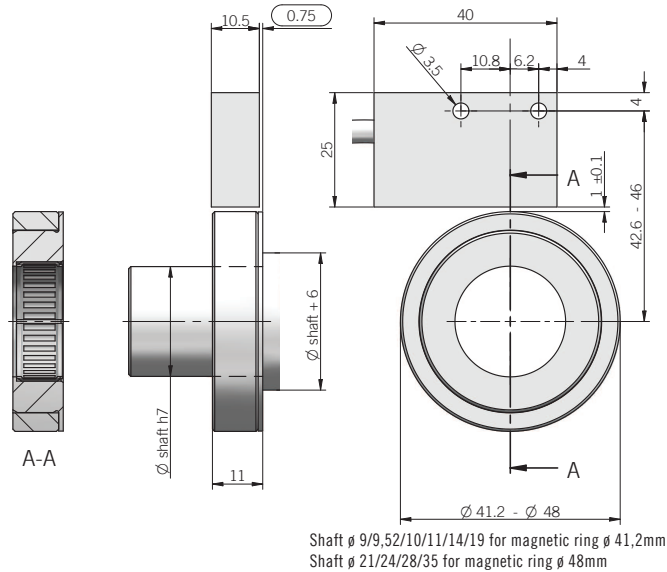


## ORDERING CODE

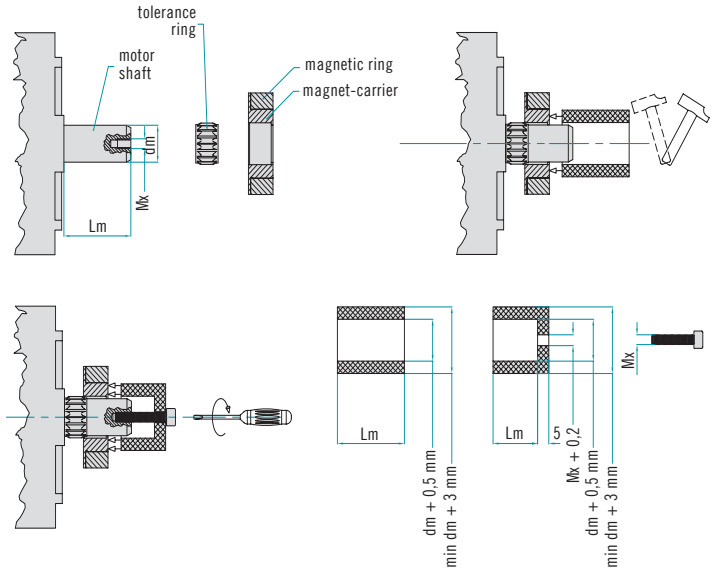
**ETM R 4096 S 5 P 9 S 8 PR . XXX**

<b>SERIES</b> magneto incremental encoder <b>ETM</b>	<b>VARIANTE</b> <b>XXX</b> custom version
<b>TYPE</b> standard <b>R</b>	<b>OUTPUT TYPE</b> <b>PR</b> radial cable output (standard length 1.5 m)
<b>RESOLUTION</b> (only powers of 2) ppr from 64 to 4096	<b>MAX ROTATION SPEED</b> 8 8000 rpm
<b>ZERP PULSE</b> without zero pulse <b>S</b>	<b>ENCLOSURE RATING</b> <b>S</b> IP 67
<b>POWER SUPPLY</b> 5 V DC <b>5</b> 8 ... 24 V DC <b>8/24</b>	<b>BORE DIAMETER</b> 9 mm 9.52 mm 10 mm 11 mm 14 mm 19 mm 21 mm 24 mm 28 mm 35 mm
<b>ELECTRONIC INTERFACE</b> push-pull <b>P</b> line driver <b>L</b>	<i>please directly contact our offices for availability</i>

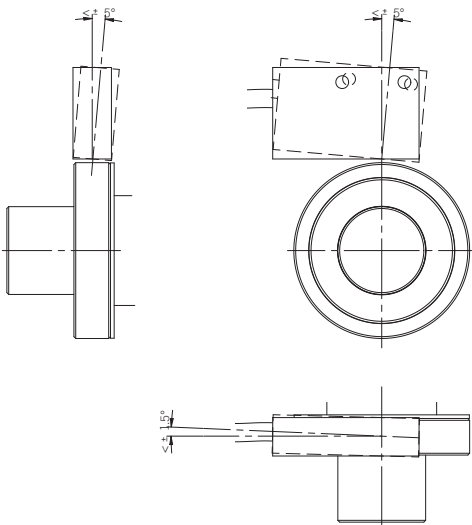
# ETMR



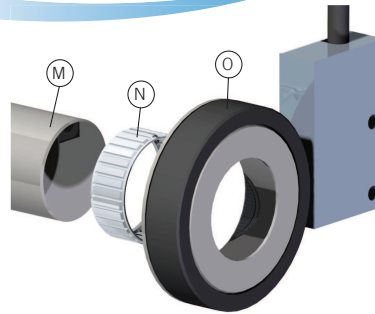
## Magnet mounting precautions



## Mechanical tolerances



## How to mount it



Don't hit the magnetic ring with hard objects to avert breaking or damage!  
Keep the magnetic ring away from magnetic fields to prevent distortion of magnetic pattern!

- Slip the tolerance ring (N) on to the motor shaft (M).
- Then slip the magnet (O) on to the tolerance ring till the stop, pressing lightly only on the steel surface of the magnet-carrier.

## Electrical specifications

<b>Resolution</b>	from 64 to 4096 ppr (only powers of 2)
<b>Power supply</b>	5 V DC 8 ... 24 V DC
<b>Current consumption without load</b>	40 mA max
<b>Max load current</b>	20 mA per channel
<b>Electronic interface</b>	line driver push-pull
<b>Max output frequency</b>	350 kHz
<b>Linearity error</b>	0,25° max
<b>Electromagnetic compatibility</b>	IEC 61000-6-2 IEC 61000-6-3

## Mechanical specifications

<b>Bore diameter</b>	9 / 9.52 / 10 / 11 / 14 / 19 / 21 / 24 / 28 / 35 mm
<b>Enclosure rating</b>	IP 67
<b>Max rotation speed</b>	8000 rpm
<b>Shock</b>	50 G, 11 ms (IEC 60068-2-27)
<b>Vibration</b>	10 G, 10 ... 2000 Hz (IEC 60068-2-6)
<b>Magnet-carrier material</b>	stainless steel UNI X10CrNiS1809
<b>Mounting tolerances</b>	axial: $\pm$ 1 mm radial: $\pm$ 0,1 mm
<b>Operating temperature</b>	-20° ... +85 °C
<b>Storage temperature</b>	-25° ... +90 °C
<b>Weight</b>	200 g