

Multipole Ring Magnet 48P2930591390

Pole Length 2 mm, 48 Poles

1. General Description

This specification defines the dimensional and magnetic properties of a 48-pole magnet for use with the Hall-effect digital sensors.

Material: Ferrtron ® (Polyamide + Strontium Ferrite)

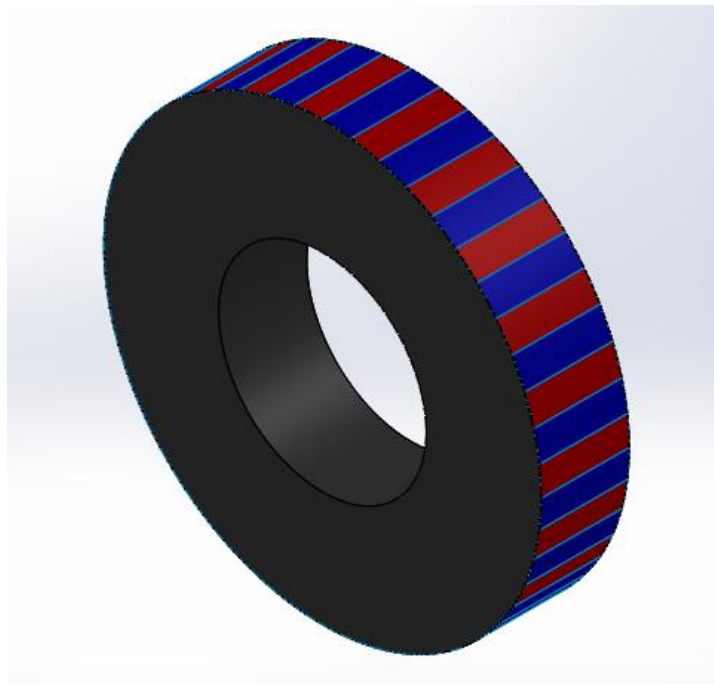
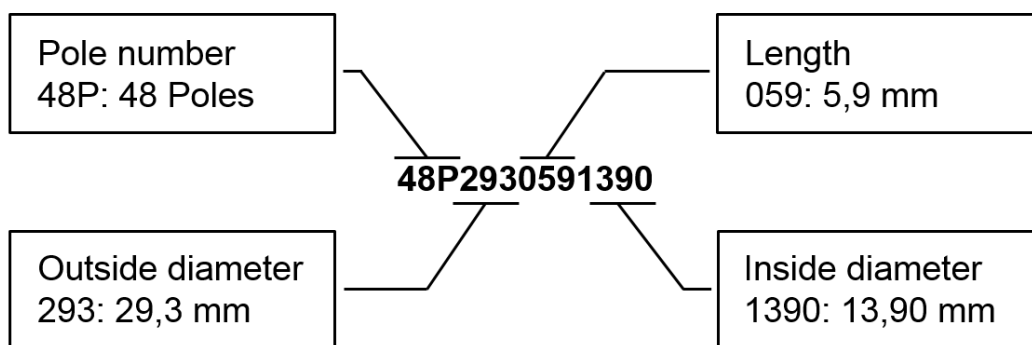


Fig. 1: Multipole Ring Magnet 48P2930591390 – Pole Structure

2. Code determination



3. Dimensional Specification

Parameter	Unit	Value
Outside diameter	mm	29,3
Number of poles	-	48
Pole length	mm	2
Inside diameter	mm	13,90
Rotor length	mm	5,9
Flux density at peak (0,4 mm)	mT	100
Magnetization direction	-	radial

Table 1: Dimensional Specification

The value of the pole length in the code describes the mean value of the single pole determined by means of the formula:

$$r_m = \frac{\text{pole_length(mm)} * \text{number_of_poles}}{2 * \pi}$$



Fig. 2: Real photo