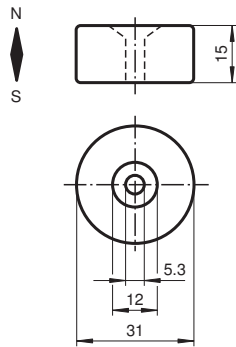




Magnet DM 60-31-15

Permanent magnet for magnetic field sensors

Dimensions



Technical Data

Ambient conditions

Ambient temperature max. 200 °C

Mechanical specifications

Material SrFe acc. to ratio 22/14

Dimensions Height: 15 mm
Diameter: 31 mm

Technical Features

The hard ferrite magnet consists of strontium ferrite (SrFe). The magnetisation already takes place during the shaping and is thus in imposed axial direction (anisotropic).

The magnetic clamp disk can be screwed onto a surface through a centre hole with a countersunk screw to save space. For fastening, use a M5 countersunk screw made of unmagnetic, non-conducting material, e. g. V2A or brass. The dimensional tolerance usually amounts to ± 0.1 mm.

Characteristic		Value	
Power product	(W x H) max.	27 ... 32	kJ/m^3
Remanence	B_r	380 ... 400	mT
Coercive field strength	J_{H_C}	235 ... 290	kA/m
Coercive field strength	B_{H_C}	130 ... 275	kA/m
Relative remanent permeability	$\mu_0 H_r$	1.45 ... 1.65	mT/ kA/m
Temperature coefficient of the remanence	α	-0.20	%/°C
Density	r	5.0	g/cm^3