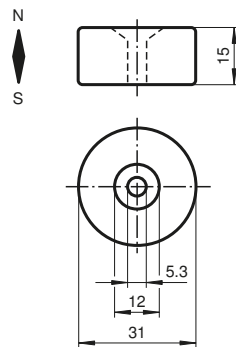




Magnet
DM 60-31-15

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

Release date: 2020-03-20 Date of issue: 2020-06-29 Filename: 020175_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

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	jH_C	235 ... 290	kA/m
Coercive field strength	$B_H C$	130 ... 275	kA/m
Relative remanent permeability	$\mu_0 \mu_r$	1.45 ... 1.65	mT/ kA/m
Temperature coefficient of the remanence	α	-0.20	%/°C
Density	ρ	5.0	g/cm^3