

## PIC-M0204

### NdFeB-Miniaturmagnet

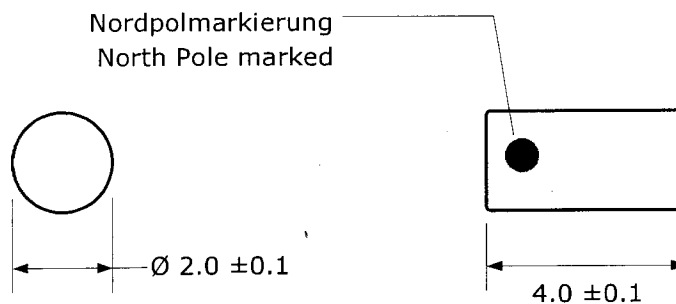
#### Daten

<b>Werkstoff</b>	NdFeB, vernickelt	
<b>Magnetisierung</b>	axial	
<b>Remanenz Br</b>	mT	1185
<b>Koerzitivfeldstärke HcB</b>	kA/m	828
<b>Koerzitivfeldstärke HcJ</b>	kA/m	955
<b>Energieprodukt (BH) max.</b>	$\text{kJ/m}^3$	275
<b>Magnetisches Moment M</b>	$\times 10^{-5} \text{ Vs cm}$	0,11
<b>Einsatztemperatur max.</b>	°C	80
<b>Curie-Temperatur Tc</b>	°C	310
<b>Temperaturkoeffizient Tk(Br)</b>	%/°C	-0,12
<b>Dichte</b>	$\text{g/cm}^3$	7,5

Werte nominal, falls nicht anders angegeben

#### Abmessungen

in mm



**Kundenspezifische Ausführungen auf Anfrage erhältlich!**

# MAGNETS

We provide assistance to select the suitable magnet for your sensor application. Please take a look at our overview of prime magnet materials available.

Material	Features	Standard shapes and orientation
NdFeB	<ul style="list-style-type: none"> <li>• highest energy product</li> <li>• small size</li> <li>• operating temperature up to +180 °C</li> <li>• less expensive than SmCo</li> <li>• bonded material available</li> </ul>	
SmCo	<ul style="list-style-type: none"> <li>• high energy product</li> <li>• small size</li> <li>• operating temperature up to +350 °C</li> <li>• highest resistance to demagnetization</li> <li>• bonded material available</li> </ul>	
Alnico	<ul style="list-style-type: none"> <li>• operating temperature -250 to +550 °C</li> <li>• low temperature coefficient</li> </ul>	
Ferrite	<ul style="list-style-type: none"> <li>• least expensive magnetic material</li> <li>• operating temperature up to +300 °C</li> <li>• various shapes and orientations</li> <li>• bonded material available</li> </ul>	

Other shapes and orientations upon request.



## Selection Guide

	Ferrite	Alnico	NdFeB	SmCo
Costs	Ferrite	Alnico	SmCo	NdFeB
Energy Product	NdFeB	Ferrite	SmCo	Alnico
Operating Temperature	NdFeB	SmCo	Alnico	Ferrite
Corrosion Resistance	Alnico	Ferrite	NdFeB	SmCo
Resistance to Demagnetization	Ferrite	SmCo	NdFeB	Alnico
Mechanical Strength	Alnico	SmCo	NdFeB	Ferrite

## Material Grades

		Remanence		Coercivity		Energy Product (BH) max. [kJ/m³]	Operating Temperature max. [°C]
		Br [mT]	HcB [kA/m]	HcJ [kA/m]			
NdFeB	N30	1105	836	955	235	80	
	N30H	1105	836	1274	235	120	
	N30SH	1100	836	1512	239	150	
	N33EH	1185	828	955	275	200	
	N35	1185	828	955	275	80	
	N35H	1190	828	1274	275	120	
	N35SH	1190	828	1512	275	150	
	N40SH	1260	844	1512	314	150	
	N45	1350	840	955	354	80	
SmCo5	S20	875	617	1194	159	250	
	S24H	975	724	1433	183	300	
	Sm2Co17	1065	724	1433	215	300	
Alnico	A500	1281	50	52	40	500	
Ferrite	Y10	215	143	203	8	250	
	Y30BH	390	229	231	29	300	
	Y35	410	183	167	31	300	
Bonded Ferrite	FB1	240	171	225	11	80	
Bonded NdFeB	BN8	575	378	1035	64	150	

All dimensions in mm  
 Specifications are current at the time of catalogue printing and subject to change without notice.  
 For latest technical releases please refer to our web site [www.pic-gmbh.com](http://www.pic-gmbh.com)

# SOME OF OUR STANDARD MAGNETS

	Threaded			Flatpack	
	MSM-225 Nickel plated brass housing	MSM-228	SM-11711 spoke mountable magnet	MSM-324	MSM-328

## Cased Magnets

		1	2	3	4	5
Remanence Br	mT	1115	1200	400	1115	1115
Coercivity HcJ	kA/m	1473	1075	263	1473	1473
Energy Product (BxH) max.	kJ/m <sup>3</sup>	235	275	30	235	235
Magnetic Moment M	x10 <sup>-5</sup> Vs cm	1.21	1.5	1.24	3.42	3.42
Figure		1	2	3	4	5

Figure 1

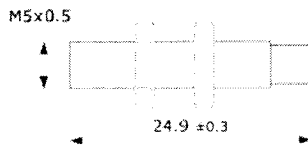


Figure 2

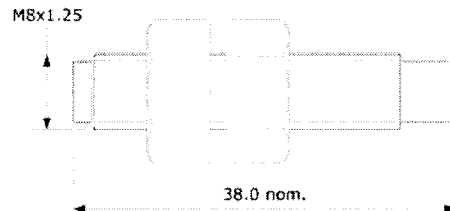


Figure 3

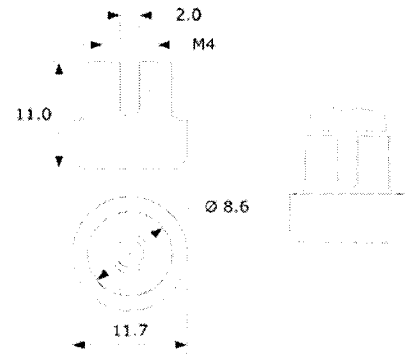


Figure 4

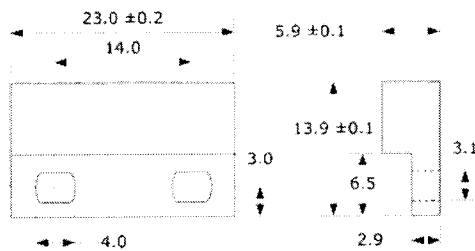
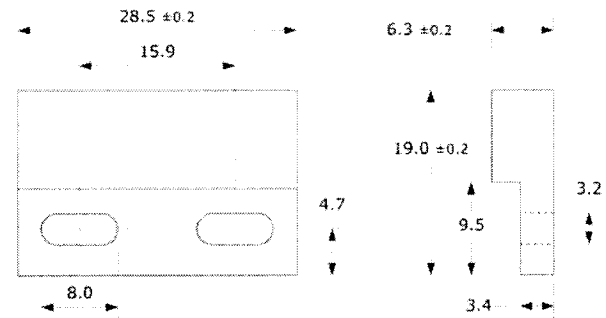


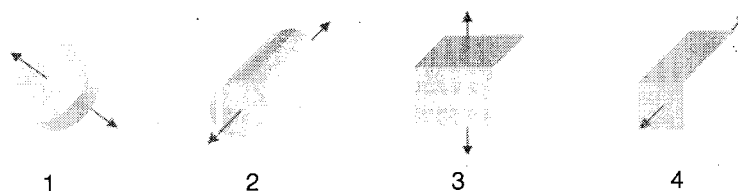
Figure 5



PIC-M0204 NdFeB	PIC-M020202 NdFeB	PIC-M0603SH NdFeB	PIC-M0805 NdFeB	PIC-M0504 SmCo	PIC-M0625 Alnico	PIC-M1602SMD SMD mountable!
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## Bare Magnets

		2	3	1	1	1	2	4
Remanence Br	mT	1200	1240	1115	1200	875	1281	910
Coercivity HcJ	kA/m	1075	1075	1473	1075	1194	53	1275
Energy Product (BxH) max.	kJ/m <sup>3</sup>	275	295	235	275	159	40	160
Magnetic Moment M	x10 <sup>-5</sup> Vs cm	0.11	0.08	1.21	2.89	0.81	6.21	0.5
Dimensions	mm	Ø2x4	2x2x2	Ø6x3	Ø8x5	Ø5x4	Ø6x25	16.5x2.5x2.5
Figure		2	3	1	1	1	2	4



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