COMUS The Comus Group of Companies

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MAGNETS

*use either part number

Options / Features								
Magnets	Bare Magnets				Bare Magnets			
Style	Rectangular	Rectangular	Rectangular	Rectangular	Cylindrical	Cylindrical	Cylindrical	Cylindrical
Type	RSH01	RSH32	RSH34	RSH33	PRLM	PRM	PRMM	PRNM
Diameter mm	-	-	-	-	3	6	10	12.5
Length mm	12.7	27.9	25.4	19.05	15	18	30	40
Height mm	3.18	4.75	6.35	3.18	-	-	-	-
Width mm	1.59	4.75	6.35	3.18	-	-	-	-
Gauss Strength / Surface	140	550	690	250	900	1000	1000	1100
Plating	Unplated	Unplated	Unplated	Unplated	Unplated	Unplated	Unplated	Unplated
Case Material	Alcomax	Alcomax	Alcomax	Alcomax	Alcomax	Alcomax	Alcomax	Alcomax

Options / Features				• Dimple pole marking										
Magnets	Bare Magnets (cont.)													
Style	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cylindrical
Type	M1219-1	M1219-2	M1219-3	M1219-4	M1219-5	M1219-6	M1219-8	M1219-10	M1219-11	M1219-12	M1219-13	M1219-14	M1219-15	M1219-17
Diameter mm	3	3	4	6	10	6	6	22	9	5	5	4	3	6
Length mm	1	2	3	2	5	5	4	2	5	2	4	2	20	26
Height mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Width mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gauss Strength / Surface	1500	2500	3200	2500	3500	3500	3900	850	3500	2200	3700	2000	2500	4500
Plating	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel	Bright Nickel
Case Material	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)

Options / Features										• High Temperature Housing						
Magnets	Bare Magnets				Cased Magnets											
Style	Ring	Ring	Ring	Ring	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular
Type	M1218	M1387	M1357	M1363	MP4428M	PSM	PSMM	PSRM	PSSM	MPSM	LMSM	MMPSM	LMPSM	MC-12M	PRM-SA-002 / CTCM *	PRM-SP-001 / CTE002M *
Diameter mm	15 (Outer Ring) 3.2 (Inner Ring)	17 (Outer Ring) 12 (Inner Ring)	48 (Outer Ring) 42 (Inner Ring)	60 (Outer Ring) 54 (Inner Ring)	-	-	-	-	-	-	-	-	-	-	-	-
Length mm	6	6	9	9	72	30	35	35	30	23	23	20	20	33	32	32
Height mm	-	-	-	-	12	7	9	8	7	6	6	6	6	9	8	8
Width mm	-	-	-	-	13	20	26	20	20	14	14	14	14	15	15	13
Gauss Strength / Surface	1000	600	3700	3700	-	-	-	-	-	-	-	-	-	-	-	-
Plating	-	-	Bright Nickel	Bright Nickel	-	-	-	-	-	-	-	-	-	-	-	-
Case Material	Ferrite	Ferrite	Neodymium Iron Boron(NdFeb)	Neodymium Iron Boron(NdFeb)	ABS	Nylon 66	Aluminium	Aluminium	Nylon 66	Glass Filled Nylon	ABS	Nylon 66	ABS	ABS	Aluminium	ABS

Options / Features							
Magnets	Cased Magnets						
Style	Threaded	Threaded	Threaded	Threaded	Threaded	Cylindrical	Cylindrical
Type	PTM 12	PTM 18	PTPM	PTSM	PRM-TB-001 / CTI302M *	PRM-RB-001 / CTI002M *	SD70M
Diameter mm	M12 Thread	M18 Thread	M12 Thread	M12 Thread	M8 Thread	-	-
Length mm	50	50	35	35	28	29.5	21.2
Height mm	-	-	-	-	-	-	-
Width mm	-	-	-	-	-	7.5	19.05
Gauss Strength / Surface	-	-	-	-	-	-	-
Plating	Bright Nickel	Bright Nickel	-	Bright Nickel	-	-	-
Case Material	Brass	Brass	Acetal	Brass	Brass	Brass	ABS

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This catalogue contains our complete range of both bare and cased magnets:

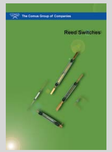
Bare

- Rectangular / Block
- Cylindrical / Disc
- Ring

Cased

- Rectangular Plastic
- Rectangular Metal
- Threaded Plastic
- Threaded Metal

Related Catalogues available.....just ask for your free copy:



Reed Switches

Proximity Switches

Economy Proximity Switches

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We also have a large network of worldwide agents. These can be seen on any of our websites, or on our company profile brochure.

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MATERIALS AVAILABLE:

ALNICO / ALCOMAX

A good general purpose material that can be machined or cast to the required shape prior to being magnetised. It has a maximum working temperature of 550°C and good corrosion resistance.
Composed mainly of alloys of Aluminium, Nickel and Cobalt, Alnico / Alcomax magnets are manufactured by either sintering, or casting. Sintered magnets have slightly lower magnetic properties to cast magnets, but have better mechanical characteristics. Cast magnets allow for more complex shapes such as horseshoes, which are not possible with other magnetic materials.
Alnico / Alcomax is very hard and brittle, meaning drilling by conventional methods is very difficult. Holes are generally cored during the manufacturing process, with magnets being cast close to the finished size, and then machined to the correct dimensions.
Alnico / Alcomax magnets can be easily plated for cosmetic reasons if required.

NEODYMIUM IRON BORON (NdFeB)

An alloy of the Lanthanide group of elements, and also known as Rare Earth magnets, Neodymium Iron Boron (NdFeB) along with Samarium Cobalt (SmCo) are the most advanced permanent magnet materials available today. There are various grades available which satisfy a number of application requirements.
NdFeb magnets are available in sintered or bonded forms. Sintered magnets offer the higher energy, however require some finishing techniques to keep to tight tolerances not required using bonded forms.
NeFeb magnets are again, hard, yet brittle, and are all anisotropic, (except bonded NdFeb B10N material), and as such can only be magnetised in the orientation direction. B10N may be magnetized in any direction, and with multiple poles, although this requires special fixtures.
Corrosion resistance of NdFeb magnets is low. Therefore all our standard Neodymium magnets are Bright Nickel plated which gives excellent resistance to harsh environments. Alternative Zinc and Tin platings are also available, as well as powder epoxy coatings in many colours, which further protect the magnet.
All Rare Earth magnets have extremely strong magnetic fields and must be handled very carefully to avoid damage.
They have a maximum working temperature of around 130°C.

FERRITE

Ferrite magnets are sintered permanent magnets composed of Barium or Strontium Ferrite. Aside from having good resistance to demagnetization they have the popular advantage of being low cost.
Ferrite magnets are very hard, but also very brittle, and as such require specialized machining techniques. They are machined in an unmagnetized state.
Anisotropic grades are oriented in the manufacturing direction, and must be magnetized in the direction of the orientation.
Isotropic grades are not oriented and can be magnetized in any direction, however a certain degree of greater magnetization will be found in the pressing dimension, which is usually the shortest dimension.
Ferrite is a cost effective material which has high resistance to demagnetisation. It has a maximum working temperature of 250°C and excellent corrosion resistance.
Due to their very low cost, Ferrite magnets are used in a wide range of applications, from loudspeakers, and motors, to childrens toys, and are today the most commonly used permanent magnets, worldwide.
Because of the sintering process, Ferrite magnets may have a thin layer of magnet powder on the surface, and hence for clean applications where contaminant could prove troublesome, some form of coating may be required.

BARE MAGNETS

Magnets can be supplied as a separate product or part of a proximity switch set consisting of switch and magnet.

CASED MAGNETS

Cased magnets can be supplied as a separate product, where you can select a magnet to suit your operation, or as part of a proximity switch set consisting of matching switch and magnet.

CUSTOM DESIGN

Looking for a magnet that is not shown overleaf? Do you need a different size? A different grade of material or coating? Contact our sales office. We can manufacture custom magnets to your own specifications in large or small volumes.

All dimensions are nominal, in millimetres unless otherwise stated. If further information is required, individual datasheets are available on our websites, or on CD.
As part of the groups policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on our products.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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