

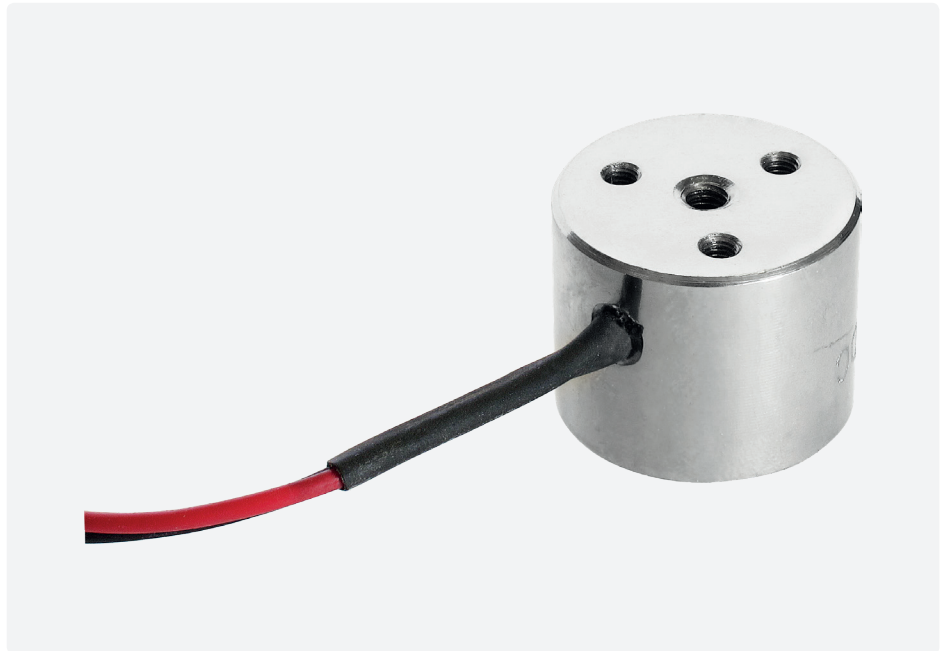
Electro-Holding Magnet: 20mm



Energise To Hold

Technical Data

Mountings	Threaded holes in rear face
Finish	Bright nickel-plated with machined face
Weight	36g
Typical Holding Force	53N
ED Rating	100%
IP Rating	54
Standard Operating Voltage	12VDC M52180/12VDC 24VDC M52180/24VDC
Current	12V - 210mA 24V - 100mA
Typical Power	2.5W
Connection Type	12VDC & 24VDC Free Leads (500mm Long)

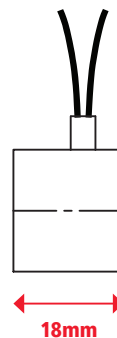


Recommended Armature Plate

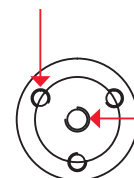
Finish	Bright nickel-plated
Diameter	25mm
Height	3mm
Screw	M3
Part Number	M52171/25ARM
Weight	15g



Leads:
1 Red & 1 Black
0.3mm Square
500mm Long



3 Holes Tapped M3
Coarse x 5mm Deep
on 14mm P.C.D



Tapped M4 Coarse
x 10mm Deep

Air Gap (mm)	Pull Force* (N)
0.00	53
0.09	22
0.18	9
0.27	5
0.36	3
0.59	2
1.00	1

* +/- 10% at room temperature

To achieve the optimum pull force 100% contact area must be achieved using the recommended armature plate. The force will be affected if other material specifications, thicknesses and surfaces are used, or if the armature fails to make positive contact over the full diameter of the face of the magnet.

Where misalignment is likely to be an issue we recommend that an oversized armature plate is used to ensure 100% full contact, this however will reduce the stated pull force by approximately 10%.

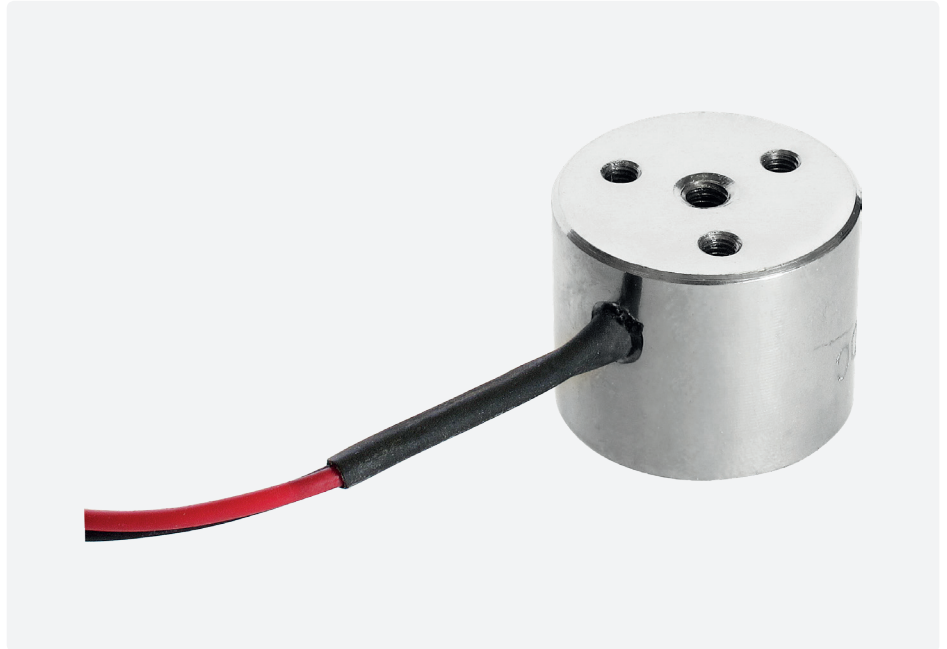
Electro-Holding Magnet: 25mm



Energise To Hold

Technical Data

Mountings	Threaded holes in rear face
Finish	Bright nickel-plated with machined face
Weight	66g
Typical Holding Force	150N
ED Rating	100%
IP Rating	54
Standard Operating Voltage	12VDC M52172/12VDC 24VDC M52172/24VDC
Current	12V - 180mA 24V - 90mA
Typical Power	2W
Connection Type	12VDC & 24VDC Free Leads (500mm Long)

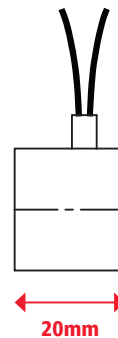


Recommended Armature Plate

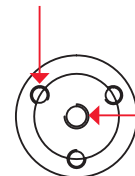
Finish	Bright nickel-plated
Diameter	25mm
Height	3mm
Screw	M3
Part Number	M52171/25ARM
Weight	15g



Leads:
1 Red & 1 Black
0.3mm Square
500mm Long



3 Holes Tapped M3
Coarse x 5mm Deep
on 15mm P.C.D



Tapped M4 Coarse
x 10mm Deep

Air Gap (mm)	Pull Force* (N)
0.00	150
0.09	51
0.18	22
0.27	12
0.36	8
0.59	4
1.00	2

* +/- 10% at room temperature

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Electro-Holding Magnet: 30mm

Energise To Hold

Technical Data

Mountings	Threaded holes in rear face
Finish	Bright nickel-plated with machined face
Weight	108g
Typical Holding Force	280N
ED Rating	100%
IP Rating	54
Standard Operating Voltage	12VDC M52173/12VDC 24VDC M52173/24VDC
Current	12V - 280mA 24V - 140mA
Typical Power	3.3W
Connection Type	12VDC & 24VDC Free Leads (500mm Long)

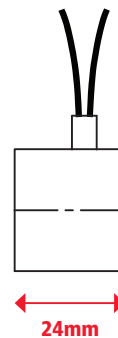


Recommended Armature Plate

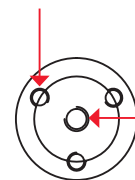
Finish	Bright nickel-plated
Diameter	30mm
Height	4mm
Screw	M4
Part Number	M52171/30ARM
Weight	30g



Leads:
1 Red & 1 Black
0.3mm Square
500mm Long



**3 Holes Tapped M3
Coarse x 5mm Deep
on 18mm P.C.D**



**Tapped M5 Coarse
x 10mm Deep**

Air Gap (mm)	Pull Force* (N)
0.00	280
0.09	149
0.18	80
0.27	43
0.36	26
0.59	12
1.00	5
1.59	2
2.00	2

* +/- 10% at room temperature

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Electro-Holding Magnet: 40mm



Energise To Hold

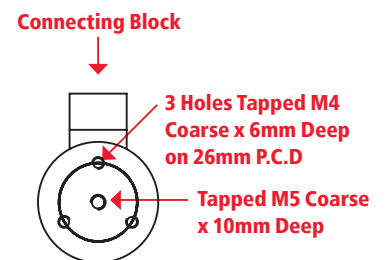
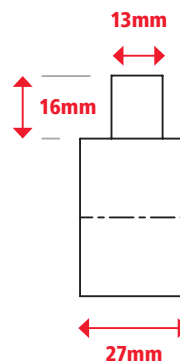
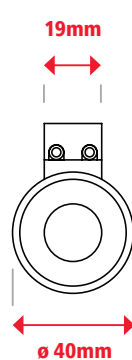
Technical Data

Mountings	Threaded holes in rear face
Finish	Bright nickel-plated with machined face
Weight	210g
Typical Holding Force	550N
ED Rating	100%
IP Rating	20
Standard Operating Voltage	12VDC M52174/12VDC 24VDC M52174/24VDC
Current	12V - 440mA 24V - 230mA
Typical Power	5.28W
Connection Type	12VDC & 24VDC Two-pole connector



Recommended Armature Plate

Finish	Bright nickel-plated
Diameter	40mm
Height	5mm
Screw	M4
Part Number	M52171/40ARM
Weight	50g



Air Gap (mm)	Pull Force* (N)
0.00	550
0.09	276
0.18	144
0.27	83
0.36	57
0.59	30
1.00	14
1.59	7
2.00	5
4.00	3

* +/- 10% at room temperature

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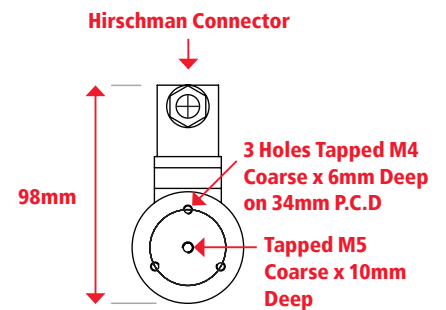
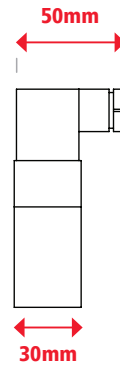
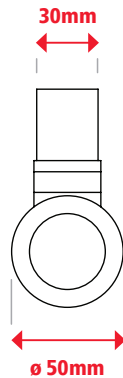
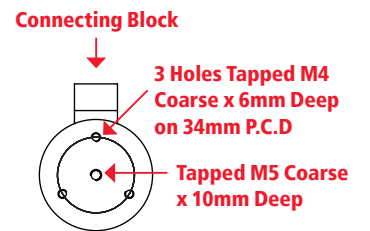
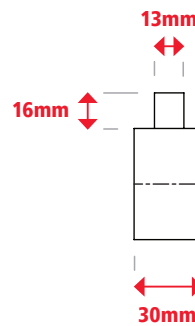
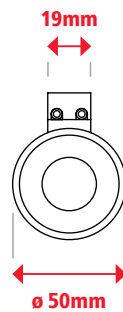
Electro-Holding Magnet: 50mm



Energise To Hold

Technical Data

Mountings	Threaded holes in rear face
Finish	Bright nickel-plated with machined face
Weight	12V / 24V: 364g, 240V: 408g
Typical Holding Force	1000N
ED Rating	100%
IP Rating	20 - Two-pole connector 54 - Hirschman connector
Standard Operating Voltage	12VDC M52175/12VDC 24VDC M52175/24VDC 240VAC M52175/240VA
Current	12V - 470mA 24V - 240mA 240V - 40mA
Typical Power	12V & 24V - 5.64W 240V - 8.56W
Connection Type	12VDC & 24VDC: Two-pole connector 240VAC: Hirschman connector with Rectifier



Recommended Armature Plate

Finish	Bright nickel-plated
Diameter	50mm
Height	6mm
Screw	M4
Part Number	M52171/50ARM
Weight	100g

Air Gap (mm)	Pull Force* (N)
0.00	1000
0.09	665
0.18	442
0.27	282
0.36	187
0.59	87
1.00	37
1.59	24
2.00	19
4.00	6

* +/- 10% at room temperature

To achieve the optimum pull force 100% contact area must be achieved using the recommended armature plate. The force will be affected if other material specifications, thicknesses and surfaces are used, or if the armature fails to make positive contact over the full diameter of the face of the magnet.

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Electro-Holding Magnet: 65mm

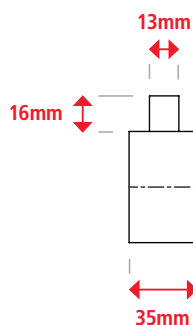
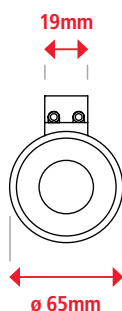
Energise To Hold

Technical Data

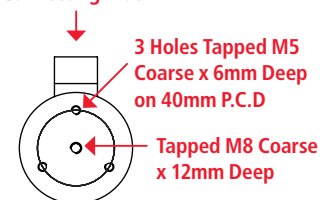
Mountings	Threaded holes in rear face
Finish	Bright nickel-plated with machined face
Weight	12V / 24V: 710g. 240V: 744g
Typical Holding Force	1670N
ED Rating	100%
IP Rating	20 - Two-pole connector 54 - Hirschman connector
Standard Operating Voltage	12VDC M52176/12VDC 24VDC M52176/24VDC 240VAC M52176/240VA
Current	12V - 690mA 24V - 340mA 240V - 50mA
Typical Power	12V & 24V - 8.28W 240V - 10.7W
Connection Type	12VDC & 24VDC: Two-pole connector 240VAC: Hirschman connector with Rectifier



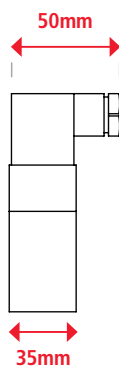
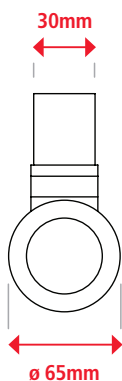
12VDC/24VDC



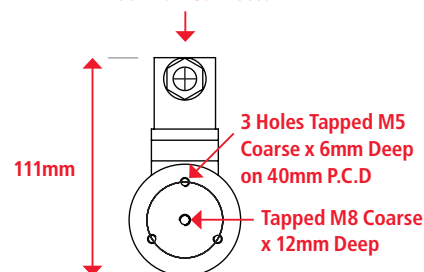
Connecting Block



240VA



Hirschman Connector



Recommended Armature Plate

Finish	Bright nickel-plated
Diameter	65mm
Height	8mm
Screw	M5
Part Number	M52171/65ARM
Weight	210g

Air Gap (mm)	Pull Force* (N)
0.00	1670
0.09	1137
0.18	792
0.27	533
0.36	347
0.59	180
1.00	78
1.59	39
2.00	23
4.00	11

* +/- 10% at room temperature

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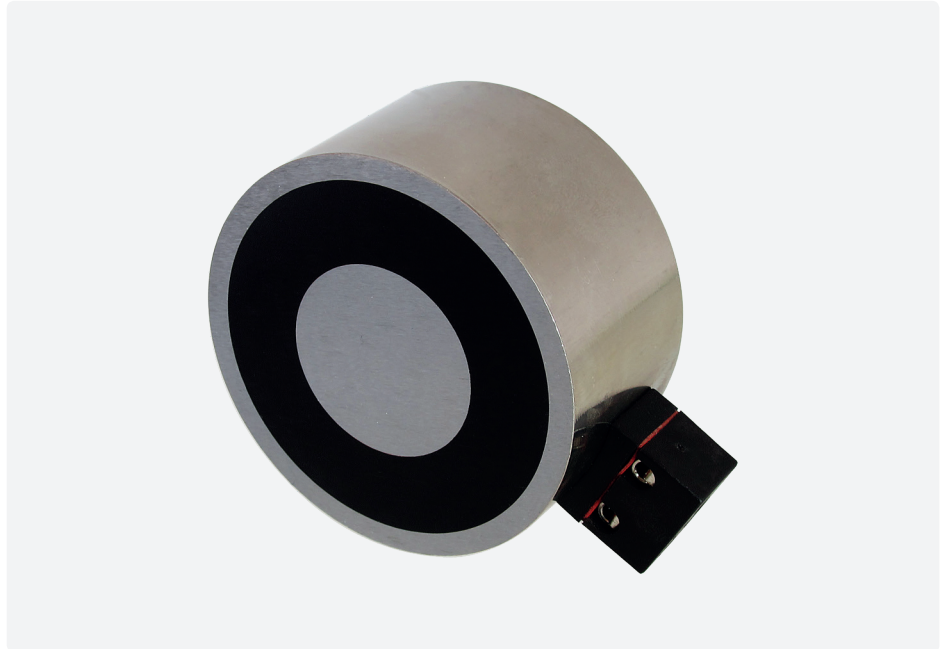
Where misalignment is likely to be an issue we recommend that an oversized armature plate is used to ensure 100% full contact, this however will reduce the stated pull force by approximately 10%.

Electro-Holding Magnet: 80mm

Energise To Hold

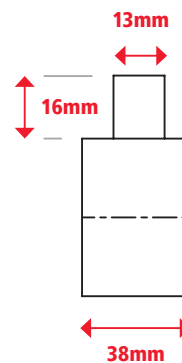
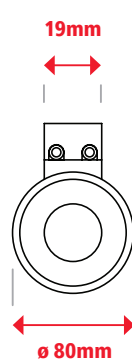
Technical Data

Mountings	Threaded holes in rear face
Finish	Bright nickel-plated with machined face
Weight	1203g
Typical Holding Force	2000N
ED Rating	100%
IP Rating	20
Standard Operating Voltage	12VDC M52183/12VDC 24VDC M52183/24VDC
Current	12V - 1116mA 24V - 580mA
Typical Power	13W
Connection Type	12VDC & 24VDC Two-pole connector

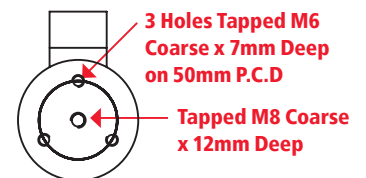


Recommended Armature Plate

Finish	Bright nickel-plated
Diameter	80mm
Height	10mm
Screw	M6
Part Number	M52171/80ARM
Weight	400g



Connecting Block



Air Gap (mm)	Pull Force* (N)
0.00	2000
0.09	1560
0.18	1117
0.27	715
0.36	567
0.59	283
1.00	130
1.59	67
2.00	37
4.00	20

* +/- 10% at room temperature

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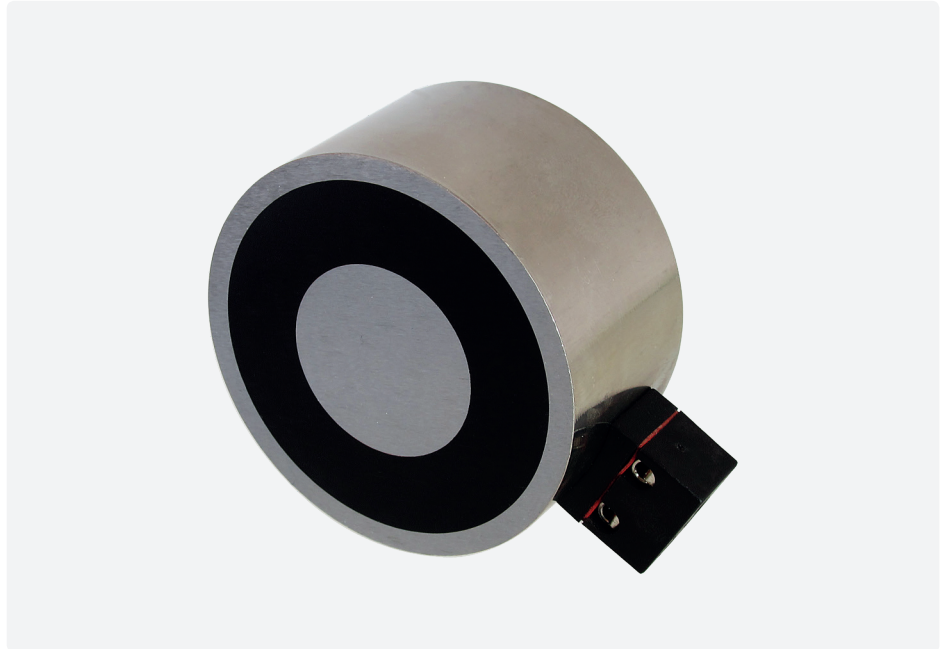
Where misalignment is likely to be an issue we recommend that an oversized armature plate is used to ensure 100% full contact, this however will reduce the stated pull force by approximately 10%.

Electro-Holding Magnet: 100mm

Energise To Hold

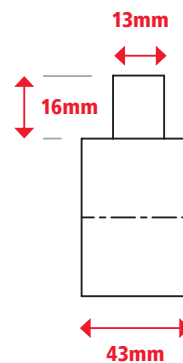
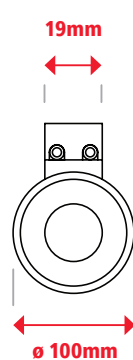
Technical Data

Mountings	Threaded holes in rear face
Finish	Bright nickel-plated with machined face
Weight	2200g
Typical Holding Force	3600N
ED Rating	100%
IP Rating	20
Standard Operating Voltage	12VDC M52184/12VDC 24VDC M52184/24VDC
Current	12V - 1850mA 24V - 940mA
Typical Power	22W
Connection Type	12VDC & 24VDC Two-pole connector

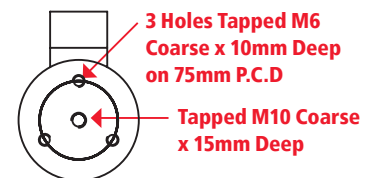


Recommended Armature Plate

Finish	Bright nickel-plated
Diameter	100mm
Height	12mm
Screw	M10
Part Number	M52171/100ARM
Weight	740g



Connecting Block



Air Gap (mm)	Pull Force* (N)
0.00	3600
0.09	2790
0.18	2230
0.27	1610
0.36	1360
0.59	1340
1.00	470
1.59	260
2.00	150
4.00	60

* +/- 10% at room temperature

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