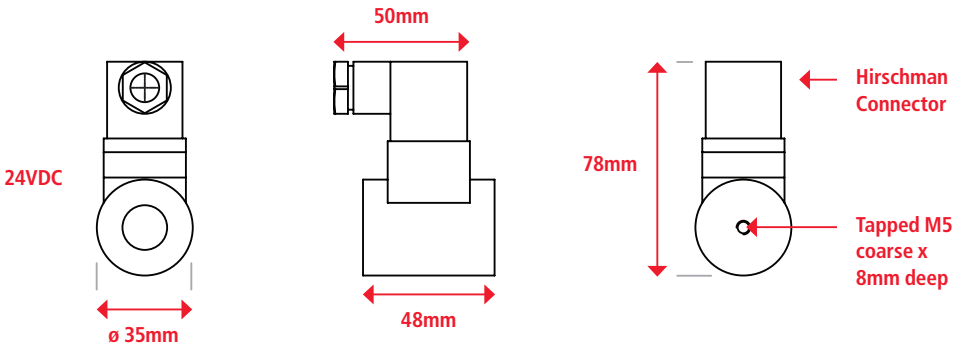
Electro-Permanent Holding Magnet: 35mm

Energise To Release

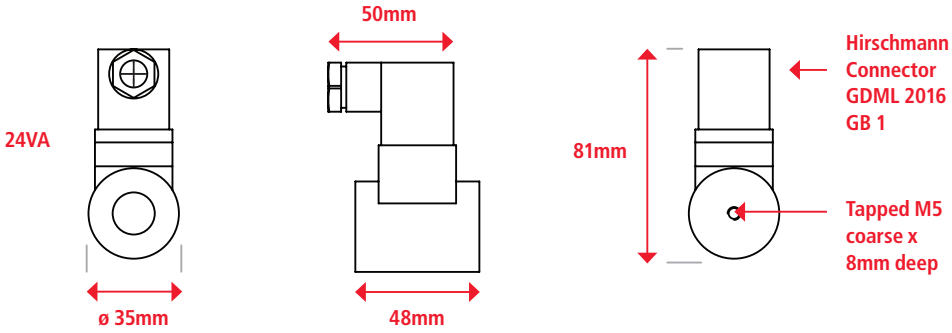
Technical Data

Mountings	Central machined hole in rear face of magnet
Finish	Bright nickel-plated with machined face
Weight	24VDC: 352g 240VAC: 354g
Typical Holding Force	250N
IP Rating	54
Standard Operating Voltage	24VDC M52177/24VDC 240VAC M52177/240VA
Current	24V - 240mA 240V - 50mA
Typical Power	24VDC: 5.28W 240VAC: 6.42W
Duty cycle	S2
Ambient temperature	35°C
Connection Type	24VDC: Hirschmann connector 240VAC: Hirschman connector with rectifier



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	250
0.09	91
0.18	51
0.27	32
0.36	23
0.59	17

*** +/- 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%.

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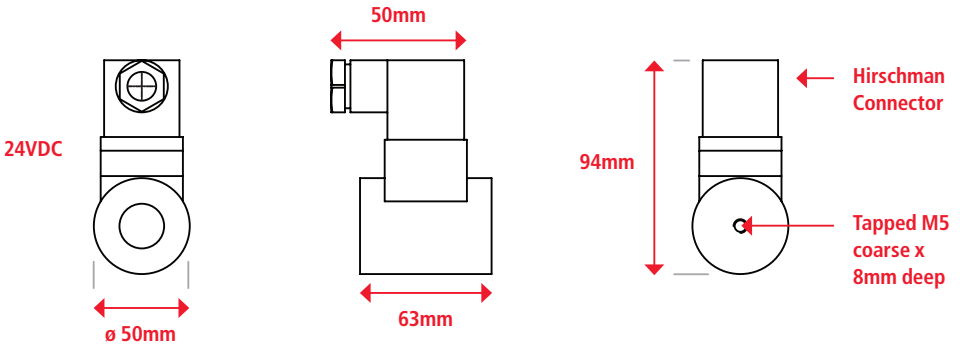
Electro-Permanent Holding Magnet: 50mm

Energise To Release

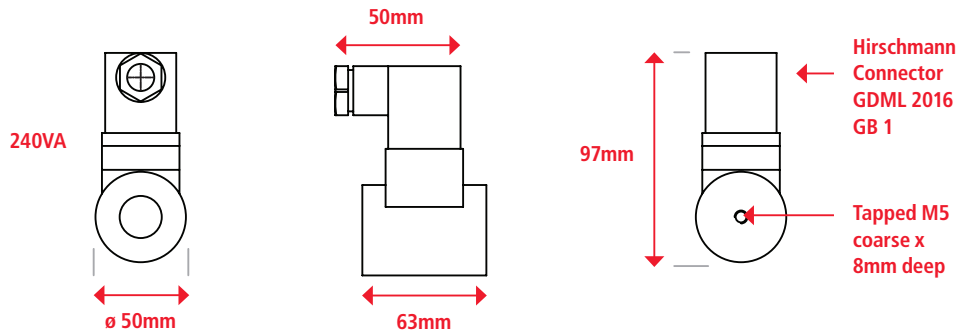
Technical Data

Mountings	Central machined hole in rear face of magnet
Finish	Bright nickel-plated with machined face
Weight	24VDC: 874g 240VAC: 880g
Typical Holding Force	500N
IP Rating	54
Standard Operating Voltage	24VDC M52178/24VDC 240VAC M52178/240VA
Current	24VDC - 350mA 240VAC - 40mA
Typical Power	24VDC: 8.4W 240VAC: 8.56W
Duty cycle	S2
Ambient temperature	35°C
Connection Type	24VDC: Hirschmann 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	500
0.09	317
0.18	208
0.27	151
0.36	116
0.59	73
1.00	47
1.59	28

*** +/- 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%.

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