Electro-holding magnet
Energise to hold - 50mm diameter
12VDC, 24VDC or 240VAC* Operating voltage

*via the Hirschmann connector with rectifier

Two-pole connector

Hirschman connector

Pull gaps

Air gap (mm)	Magnetic Pull* (N)
0.00	1000
0.09	655
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. 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%.

Description

Mountings	Threaded holes in rear face
Finish	Bright nickel plated with machined face
Product weight	12V & 24V - 364g
	240V - 408g

Technical Data

Typical holding force	1000N
ƐD rating	100%
IP Rating	20 - two-pole connector
	54 - Hirshman connector
Standard operating voltage	12VDC (M52175/12VDC)
	24VDC (M52175/24VDC)
	240VAC (M52175/240VA)
Current	12V - 470mA
	24V - 240mA
	240V - 50mA
Power consumption	12V & 24V - 5.70W
	240V - 8.56W

Connection type

12VDC and 24VDC	Two-pole connector
240VAC	Hirschman connector with rectifier

Recommended armature plate

Finish	Bright nickel plated
Diameter	50mm
Height	6mm
Screw	M4
Part No.	M52171/50ARM
Weight	100g

Dimensions

19mm
16mm
13mm
Connecting Block
Tapped M5 coarse x 10mm deep
3 holes tapped M4 coarse x 6mm deep on 34mm P.C.D.
Ø50mm
30mm

Two-pole connector

30mm
50mm
Hirschmann Connector GDML 2016 GB 1
Tapped M5 coarse x 10mm deep
3 holes tapped M4 coarse x 6mm deep on 34mm P.C.D.
98mm
Ø50mm
30mm

Hirschman connector
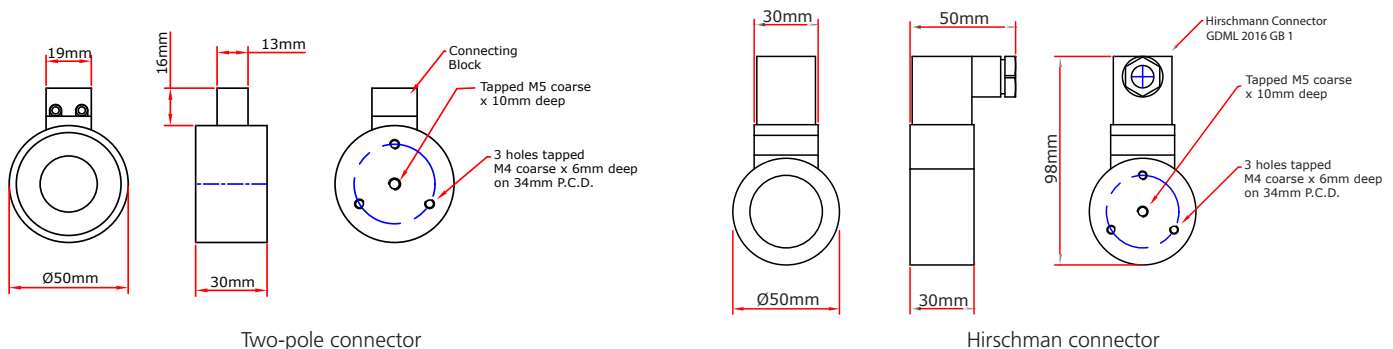
If you have any more questions, require technical assistance and would like a quotation, simply contact us.

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