

PGS Series Miniature Electro-Magnetic Gripper

PGS-5-5

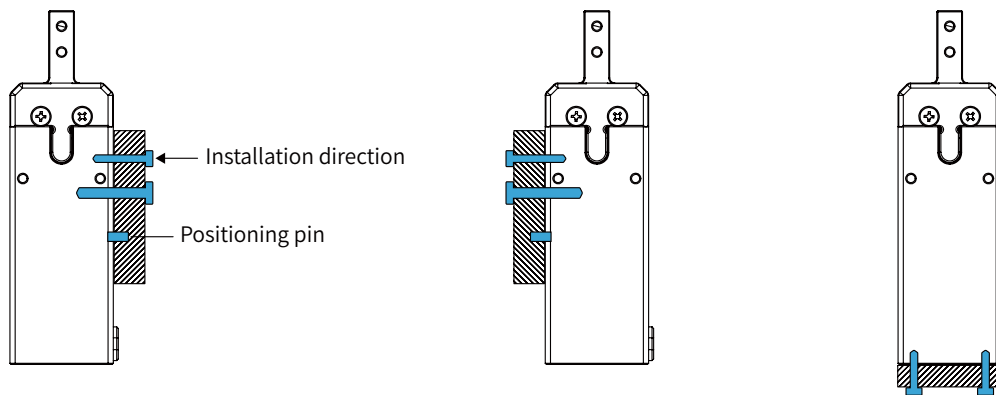


The PGS series is a miniature electro-magnetic gripper with high working frequency. Based on a split design, the PGS series could be applied in space-limited environment with the ultimate compact size and simple configuration.



Installation

1. Front and rear installation: use front and rear screw holes for installation
2. Bottom installation: use bottom screw holes for installation



Product Features

● Small Size

Compact size with 20×26 mm, it can be deployed in a relatively small environment.

● High Frequency

The opening/closing time could reach 0.03s to meet the needs of fast grasping.

● Easy to Use

The configuration is simple with the Digital I/O communication protocol.

Application

High-frequency fast capture, detection, adjustment and other scenarios in 3C electronics, medical automation, semiconductor and other industries.



Parameters

Product Parameter	
Gripping force (per jaw)	3.5~5 N
Stroke	5 mm
Recommended workpiece weight *	0.05 kg
Opening/Closing time	0.03 s/0.03 s
Repeat accuracy (position)	± 0.01 mm
Noise emission	< 50 dB
Weight	0.2 kg
Driving method	Wedge cam
Size	68.5 mm x 26 mm x 20 mm
Working Environment	
Communication interface	Digital I/O
Rated voltage	24 V DC ± 10%
Rated current	0.1 A
Peak current	3 A
IP class	IP 40
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS
<input type="checkbox"/> Build-in Controller	<input type="checkbox"/> Gripping Force Adjustable
<input type="checkbox"/> Position Adjustable	<input type="checkbox"/> Speed Adjustable
<input checked="" type="checkbox"/> Drop Detection	<input checked="" type="checkbox"/> Self-locking Mechanism



Vertical Maximum Force

Fz: 150 N

Allowable Moment

Mx: 0.62 N·m

My: 0.62 N·m

Mz: 0.62 N·m

*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, if you have any questions, please contact us.

Technical Drawings

