

Magnetic Actuators

RoHS



Description

Littelfuse offers a wide range of magnetic actuators that are packaged in shapes similar to the relative mating sensors. We also offer a limited family of bare magnets with various grades of materials, including ferrite (ceramic), AlNiCo and neodymium iron boron (NdFeB) materials.

Rectangular Actuators

These rectangular bare magnets and packaged actuators are ideally suited for mounting on a flat surface. They are suitable for use in a wide range of environments, including high-temperature applications.

| Product Series | Description | Overall Dimensions | | Material | Retentivity | Coercivity | Recommended Operating Temp. |
|----------------|--|--|--|-----------|-------------|------------|-----------------------------|
| | | mm (inch) | | | | | °C |
| | | L x W x H | | | | | |
| H-31 | AlNiCo Magnet | 12.70 (0.500) x 1.60 (0.062) x 1.60 (0.062) | | AlNiCo-5 | 10,900 | 620 | 450 |
| H-32 | AlNiCo Magnet | 25.40 (1.000) x 4.80 (0.190) x 4.80 (0.190) | | AlNiCo-5 | 10,900 | 620 | 450 |
| H-33 | AlNiCo Magnet | 19.10 (0.750) x 3.20 (0.120) x 3.20 (0.120) | | AlNiCo-5 | 10,900 | 620 | 450 |
| H-34 | AlNiCo Magnet | 25.40 (1.000) x 6.35 (0.250) x 6.35 (0.250) | | AlNiCo-5 | 10,900 | 620 | 450 |
| H-40 | Neodymium Magnet | 7.62 (0.300) x 3.18 (0.125) x 3.18 (0.125) | | NdFeB 45H | 13,300 | 11,800 | 120 |
| H-41 | Neodymium Magnet | 19.05 (0.750) x 3.18 (0.125) x 3.18 (0.125) | | NdFeB 35H | 11,700 | 10,800 | 120 |
| H-58 | Neodymium Magnet | 21.00 (0.827) x 7.00 (0.276) x 4.70 (0.185) | | NdFeB 35H | 11,700 | 10,800 | 120 |
| 57105 | Actuator for Terminal Flange Mount Sensor | 40.17 (1.582) x 19.05 (0.750) x 6.35 (0.250) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57125 | Actuator for Pinned Flange Mount Sensor | 28.57 (1.125) x 19.05 (0.750) x 6.35 (0.250) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57135 | Actuator for High-Temp Flange Mount Sensor | 28.57 (1.125) x 19.05 (0.750) x 6.35 (0.250) | | AlNiCo-5 | 12,800 | 640 | 150 |
| 57140 | Actuator for Mini Flange Mount Sensor | 23.00 (0.906) x 14.00 (0.551) x 6.00 (0.236) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57141 | Actuator for Mini Flange Mount Sensor | 23.00 (0.906) x 14.00 (0.551) x 6.00 (0.236) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57142 | Actuator for Mini Flange Mount Sensor | 23.00 (0.906) x 14.00 (0.551) x 6.00 (0.236) | | NdFeB 35H | 11,700 | 10,800 | 105 |
| 57145 | Actuator for Flange Mount Sensor | 28.57 (1.125) x 19.05 (0.750) x 6.35 (0.250) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57150 | Actuator for Flange Mount Sensor | 28.57 (1.125) x 19.05 (0.750) x 6.35 (0.250) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57045 | Actuator for Mini PCB Mount Overmolded | 17.78 (0.700) x 3.30 (0.130) x 4.32 (0.170) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57050 | Actuator for PCB Mount Overmolded | 22.86 (0.900) x 4.57 (0.180) x 4.57 (0.180) | | AlNiCo-5 | 11,000 | 620 | 105 |

Cylindrical Actuators

Designed for mounting on a frame, these cylindrical bare magnets and packaged actuators are appropriate for use in a wide range of environments, including high-temperature applications.

| Product Series | Description | Overall Dimensions | | Material | Retentivity | Coercivity | Recommended Operating Temp. |
|----------------|---|-----------------------------------|--|------------|-------------|------------|-----------------------------|
| | | mm (inch) | | | | | °C |
| | | Ø x L | | | | | |
| H-35 | Neodymium Magnet | 6.35 (0.250) x 6.35 (0.250) | | NdFeB 35H | 11,700 | 10,800 | 120 |
| H-48 | Neodymium Magnet | 4.40 (0.173) x 6.00 (0.236) | | NdFeB 35SH | 11,700 | 10,800 | 150 |
| CM-1 | Ceramic Magnet | 12.70 (0.500) x 5.08 (0.200) | | Ceramic-5 | 3,900 | 2,400 | 250 |
| H-36 | AlNiCo Magnet | 4.60 (0.182) x 25.40 (1.000) | | AlNiCo-5 | 12,800 | 640 | 450 |
| H-315 | AlNiCo Magnet | 3.00 (0.118) x 15.00 (0.590) | | AlNiCo-5 | 11,000 | 620 | 450 |
| H-420 | AlNiCo Magnet | 4.00 (0.157) x 20.0 (0.787) | | AlNiCo-5 | 11,000 | 620 | 450 |
| H-625 | AlNiCo Magnet | 6.00 (0.236) x 25.0 (0.984) | | AlNiCo-5 | 11,000 | 620 | 450 |
| 57020 | Actuator for Mini Firecracker | 5.10 (0.201) x 15.24 (0.600) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57022 | Actuator for Firecracker | 5.80 (0.228) x 25.40 (1.000) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57025 | Actuator for Firecracker | 6.22 (0.245) x 25.40 (1.000) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57030 | Actuator for Long Firecracker | 6.22 (0.245) x 38.10 (1.500) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57040 | Actuator for Firecracker with Retaining Ribs | 10.70 (0.420) x 31.00 (1.220) | | NdFeB 35H | 11,700 | 10,800 | 105 |
| 57060 | Actuator for Stainless Steel Threaded Barrel Sensor | M8 x 1.25 Pitch x 36.00 (1.420) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57065 | Actuator for Threaded Barrel Sensor (Standard) | (5/16 x 24) Pitch x 38.10 (1.500) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57070 | Actuator for Threaded Barrel Sensor (Metric) | M8 x 1.25 Pitch x 38.10 (1.500) | | AlNiCo-5 | 11,000 | 620 | 105 |
| 57075 | Actuator for Heavy Duty Threaded Barrel Sensor | M12 x 1.00 Pitch x 46.00 (1.810) | | Ceramic-2 | 2,900 | 2,400 | 105 |