



WE MAGNETISE THE WORLD

INDUSTRIAL MAGNETIC SYSTEMS



Locking Line

Locking Solenoids





WE MAGNETISE THE WORLD



Kendrion N.V. is one of the leading manufacturers of solenoids and electromagnetic components worldwide.

Consisting of the four business units Industrial Magnetic Systems, Commercial Vehicle Systems, Industrial Drive Systems and Passenger Car Systems, Kendrion guarantees solution-oriented customer care. The company excels in innovative capability and maximum productivity.

The main locations are in Donaueschingen (D) and Engelswies (D). Further locations are in Hausen am Albis (CH), Linz (A), Bradford (UK), Suzhou (CN), Mishawaka (USA) and Turin (I).

With our global distribution network we are available for our customers at any time and will be pleased to advise you.

Our products are used in almost all industrial areas. To name a few:

- Machine building
- Safety engineering
- Transportation industry
- Medical engineering
- Power engineering
- Environmental technology
- Elevator industry
- Automation

Your industry is not listed? We are sure to have an optimum solution.

Wherever innovations and new approaches are required our staff will be happy to assist you.



Over the years Kendrion has integrated the brands Binder, Magnet AG, Neue Hahn Magnet, Thoma Magnettechnik, Linnig Antriebstechnik, Tri Tech LLC, Magneta and FAS Controls.

Our business unit Industrial Magnetic Systems develops, manufactures and distributes linear-, holding-, locking-, spreading-, control-, rotary- and vibrator solenoids as well as solenoid valves for industrial applications worldwide.

The strengths of Kendrion lie both in the area of standard applications and in the area of customer-specific solutions and applications.

With our technological know-how we ensure that your application will run smoothly.

All products are tested and developed according to DIN VDE 0580/ 07.2000. Kendrion Magnettechnik GmbH is a company certified according to ISO 9001:2008.





Product Line

Description

Locking Line

Electromagnetic locking unit specially designed for use in safety devices of machines and all kinds of automation mechanisms.

With these solenoids special attention has been paid to compact design, universal mounting options and integrated feedback of the locking function. The requirements of the accident prevention regulations are reliably fulfilled.

Solenoid armatures and locking bolts are led separately in maintenance-free bearings with high resistance to wear. In order to avoid stray magnetic fields on the object to be locked the locking bolt is manufactured out of non-corrosive and non-magnetic stainless steel. The micro-switches directly integrated into the aluminum bolt housing signal the respective position of the locking bolt at the stroke starting position resp. before reaching the stroke end position.

The locking, i.e. the sliding of the locking bolt into the locking position, is achieved by an integrated spring. The unlocking, i.e. the retraction of the locking bolt, is accomplished by electromagnetic force.

Two functions are distinguished: locking or unlocking without voltage.

The magnetic forces indicated are reached at 90% of the nominal voltage and in warmed-up condition. The values for the duty cycles apply for nominal voltage, warmed-up condition and load with 70% of the magnetic force of the device.

The products are manufactured and tested according to DIN VDE 0580/07.2000.

Nominal voltage: 24 V DC, 230 V AC

Duty cycle: 100 %

Bolt stroke: 8 - 15 mm

Locking bolt Ø: 10 - 16 mm““

Locking force: 7 - 50 N

Radial force: 1200 - 3000 N

Protection class: acc. IEC 60529

Thermal class: F

Design subject to change



Locking Solenoid

Electromagnetic locking unit especially for use in protection mechanisms of machines and all kinds of automation mechanisms. With these solenoids special attention has been paid to compact design, universal mounting options and integrated feedback of the locking function. The requirements of the accident prevention regulations are fulfilled reliably and with a high degree of safety.

Type	Length x Width x Height [mm]	Stroke [mm]	Locking bolt [mm]	Radial force [N]	Duty cycle [%]	Function (without voltage)	Signaler	Emergency unlocking
LLV040002	91 x 38 x 40	8	10	1200	100	locked	stroke starting and end position	no
LLV050058	147 x 50 x 50	10	14	3000	100	locked	stroke starting and end position	no
LLV050060	125 x 50 x 50	10	14	3000	100	locked	stroke starting and end position	no
LLV050070	125 x 50 x 50	10	14	3000	100	locked	stroke starting position	no
LLV050080	137 x 50 x 50	10	14	3000	100	locked	stroke starting and end position	manual
LLV050081	125 x 50 x 50	10	14	3000	100	locked	stroke starting position	no
LLV060076	162 x 60 x 60	15	15	1500	100	locked	stroke starting and end position	manual



Locking Solenoid

In order to meet the increasing requirements concerning the protection of buildings and rooms locking solenoids are preferably used as safety elements. Locking solenoids are electromagnetically operated door bolts used for positive locking along with existing mechanical locks.

Type	Length x Width x Height [mm]	Stroke [mm]	Locking bolt [mm]	Radial force [N]	Duty cycle [%]	Function (without voltage)	Signaler	Emergency unlocking
LLV050215	115 x 50 x 44	15	16	1000	100	locked	stroke starting and end position	no
LLV050225	115 x 50 x 44	15	16	1000	100	locked	stroke starting and end position	no

Locking Solenoid



These locking solenoids are preferably used as safety elements of doors or similar stops in safety, fire protection, ventilation and air conditioning technology as well as in object protection. Depending on the type the locking is accomplished by energization of the solenoid (operating current principle) or without voltage by spring force (quiescent current principle). The extended position of the locking bolt is indicated by an integrated micro-switch (U_{max} 250 V DC) or with AC by integrated rectifiers.

Type	Length x Width x Height [mm]	Stroke [mm]	Locking bolt [mm]	Radial force [N]	Duty cycle [%]	Function (without voltage)	Signaler	Emergency unlocking
LLV055001	175 x 80 x 55	12	16	1500	100	locked	stroke end position	no
LLV055002	175 x 80 x 55	12	16	1500	100	unlocked	stroke starting position	no
LLV055003	175 x 80 x 55	12	16	1500	100	locked	stroke end position	no
LLV055004	175 x 80 x 55	12	16	1500	100	unlocked	stroke starting position	no