



SAFETY WITHOUT COMPROMISE – GEZE IQ LOCKS
SELF-LOCKING PANIC LOCKS



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LBBW Bank, Mannheim, Germany

PREFACE

Safety without compromise with GEZE IQ Locks

In case of emergency, especially if persons are involved, it is of utmost importance to be able to leave a building within seconds. On the other side, sensible areas have to be protected against unauthorised access. Self-locking panic locks offer absolute safety for persons and material assets. The IQ range of locks by GEZE offers optimum solutions for your individual safety demands. These locks are not only suited for escape and rescue routes, because a clever lock thinks ahead!

Proven safety deserves your trust

The requirements for locks in escape and rescue routes are specified by strict standards and guidelines. In an emergency everybody must rely on tested and certified safety. For that reason the GEZE IQ locks are tested in accordance with the relevant standards DIN EN 179, 1125, 12209, 1627 and 1634-1. In addition, the certificate of compliance ensures steady control and guarantees a constantly high quality.

Unique technique for your building

The innovative cross latch technology of the IQ locks prevents blocking of the bolt. The robust and functional mechanic features allow each person to leave the building at any time. With the new and unique technology of the IQ lock EL DL GEZE offers a solution for double-leaf panic doors.

Safety integrated in the GEZE SecuLogic system

A system is more than just the sum of its components. GEZE integrates its products in system solutions for doors in escape and rescue routes. The IQ lock perfectly fits into the GEZE SecuLogic building system and completes emergency exit systems and access control systems. The advantages of the non-jamming bolt of the IQ lock EL also become apparent in connection with the GEZE hinged-door drives. This means maximum functional reliability for the door. Even in combination with fresh air systems GEZE offers intelligent solutions.

The IQ range of locks by GEZE offers optimum solutions for your individual safety requirements not only in escape and rescue routes.



PRODUCT ADVANTAGES



The advantages of the GEZE range of IQ Locks at a glance

Reliable burglar protection, quick opening in an emergency and controlled access are the strong points of the self-locking panic locks by GEZE. Whenever it is a question of safe locking against unauthorised access from outside and quick evacuation in the case of emergency the IQ locks EL, EM and M are the first choice. The self-locking mechanism complies with all insurance stipulations. The door can be opened with a key from outside at any time.

Absolutely non-jamming bolt guarantees reliable opening in an emergency

Due to the unique construction the latch protects the bolt against preloads. The small distance of 3 mm between the split cross latches and the bolt prevents jamming of the bolt even in the case of torsions. By means of the panic function E even locked doors can be opened in escape directions by operating the lever or the panic bar. Latch and bolt are retracted simultaneously.

Protection against misuse and maloperation

Accidental maloperation or manipulation resulting from the operation of the auxiliary latch is no problem for IQ locks. The mechanical or electrical time-out functions prevent early throw of the bolt while the door is open.

Universally usable

Independent of their function the lock housings have the same dimensions. For that reason the IQ locks are interchangeable. Thus the building users can easily and flexibly respond to changed conditions.



Didn't find your match?

You are looking for a solution for your individual demands?

Contact us! We will gladly project special solutions for your individual demands.

Visit our website www.geze.com

The motor lock GEZE IQ Lock EL

The electronic motor lock IQ EL protects the outer shell of the entire building, thus eliminating any possibility for burglars of getting into the building. The cross latch construction by GEZE and the absolutely non-jamming dead bolt reduces the stress of the electromechanical components. This is an advantage that predestinates the lock IQ EL for hinged door drives. Unlocking is made electromotively in less than one second.

Motor lock GEZE IQ Lock EL ...



... solutions round the door



The motor lock GEZE IQ Lock EL

Motor lock – Control

Inputs non-floating	
Voltage supply	12/24 V DC
Release	
Day/night	
Smoke detector/fire alarm system	
Door contact for failsafe sequential control	

Outputs potential-free	
Handle operated	
Bolt engaged	
Day/night	
Interference/power failure	
Door leaf open/closed	
Sabotage/cylinder contact	
Release	

Electrical data	
Operating voltage	24 V / 12 V DC
Power consumption	150 mA, temporarily 250 mA
Loading capacity of the relay	30 V/1 A
Max. length of the connecting cable between lock and control	10 m

Technical data		
Dimensions	Control	139 x 119 x 70 mm (surface-mounted housing)
	Power pack	88 x 88 x 53 mm (surface-mounted housing)
Enclosure rating	Control/power pack	IP 55
Ambient temperature	Control/power pack	0 ... 50° C

GEZE IQ LOCK EL**Three modes of operation for any conceivable situation**

A high degree of functionality is a prerequisite for flexible design and application possibilities. The lock IQ EL offers three different modes of operation.

Night operation

In the mode "night operation" the bolt automatically extends 20 mm into the door frame when the door is locked. Controlled access is made e.g. by the GEZE access control system. In this case the bolt is retracted and the door can be opened in escape direction.

Secure daytime operation with door opening function

In this mode of operation the bolt is retracted. The door is held shut by the detent cross latch only. Owing to this unique function the door opener becomes redundant. The door opens in the same speed just like with a door opener. Especially in combination with a GEZE hinged door drive the lock IQ EL offers easy passing of the door.

Permanently open

In the mode of operation "permanently open" the bolt is retracted and the cross latch is not detent – the door can be open from both sides without any problems.

Contacts

All required contacts for door monitoring are integrated in the lock IQ EL thus allows the complete control of the doors. The cylinder, follower, latch and auxiliary latch contacts can be evaluated as potential-free status signals and transferred to surveillance systems. The cylinder contact offers another outstanding feature: in combination with the GEZE SecuLogic system the cylinder contact allows the activation of the RWS (smoke and heat extraction system) door control unit so that the key-operated switch in the smoke and heat extraction system becomes redundant. Thus the smoke and heat extraction system can be realised as one-jack solution.

Input for fire alarm systems

If the lock IQ EL is triggered by a fire alarm system or if there is a power failure, the lock switches to the mode of operation "night" and the door is securely locked, irrespective of the mode it is currently in. All necessary requirements for fire doors in accordance with EN 1634-1 are fulfilled. Due to successfully completed fire tests the lock can also be used for fire doors.

Scope of delivery electronic motor lock set

▪ GEZE IQ Lock EL	optional:
▪ Motor lock control	▪ Power pack in surface-mounted housing
▪ Strike plate	▪ Fittings in accordance with EN 1125
▪ Open cable access point	▪ Concealed cable access point
▪ Power supply cable 10 m	
▪ Universal reed contact	

The motor lock GEZE IQ Lock EL DL

For double-leaf doors – unique in the market

Besides the proven advantages the new IQ Lock EL DL by GEZE, which is unique in the market, offers outstanding additional functions. Up to now the motor lock could only be used for single-leaf doors in escape and rescue routes. Due to the development of a new intelligent solution for the non-active leaf the lock is also suited for double-leaf panic doors. In this case the active leaf is equipped with a modified IQ Lock EL DL and the strike box with a mechanical solution.



Professional school Friedrichshafen, Germany



The motor lock GEZE IQ Lock EL DL

GEZE IQ LOCK EL DL

By operating the non-active leaf the active leaf is opened, too, and allows the use of the entire escape way width. After passage, the self-locking function locks the door again in accordance with insurance stipulations. The contacts allow easy transmission of the signals via a fire alarm system or an alarm system. This ensures that each operation of the door also in the case of danger or abusively is registered. The system solution for double-leaf doors can be monitored and controlled at any time. In escape direction the door can be passed at any time.

The IQ Lock EL DL can be adjusted in all modes of operation and at any time. Thus the user has the possibility to decide freely whether the door can be used at any time or only in case of emergency.

The GEZE IQ Lock EL DL for double-leaf doors is internationally certified and complies with the guidelines in accordance with EN 1125 and EN 179. For that reason the system can be used for emergency exit locks as well as for panic door locks. The double-leaf solution can of course also be used for the panic locks GEZE IQ Lock EM and GEZE IQ Lock M.

The electromechanical lever lock GEZE IQ Lock EM

The electromechanical lever lock IQ Lock EM is perfectly suited for the combination with access control systems. Whilst the panic function is still effective in escape direction, the outside handle is uncoupled from the lock mechanism. The outside handle can be temporarily or permanently engaged via an electrical signal from the access control system and the door can be opened against the escape direction. As is the case with IQ Lock EL the cylinder, follower, latch and auxiliary latch contacts of the IQ Lock EM can be evaluated and utilized as potential-free messages.

Lever lock GEZE IQ Lock EM ...



... solutions round the door



The electromechanical lever lock GEZE IQ Lock EM

Electrical data

Operating voltage	24 V / 12 V DC
Power consumption	approx. 210 mA
Loading capacity of the potential-free contacts	30 V/500 mA
Max. length of connecting cable	10 m

Technical data

Dimensions	Power pack	88 x 88 x 53 mm (surface-mounted housing)
Enclosure rating	Power pack	IP 55
Ambient temperature	Power pack	0 ... 50° C

Scope of delivery electromechanical lever lock set

▪ GEZE IQ Lock EM	optional:
▪ Strike plate	▪ Power pack in surface-mounted housing
▪ Power supply cable 10 m	▪ Fittings in accordance with EN 1125
	▪ Concealed cable access point

The mechanical lock GEZE IQ Lock M

Mechanical locks, in particular, are often equipped with electronic knob cylinders. This may sometimes be a problem with regards to panic locks. Since knob cylinders are often not equipped with a cam positioning device it may come to an obstruction of the latch retention at the cam. As a result the door cannot be opened in case of emergency. The IQ Lock M is quite different: the sophisticated construction, the small rear backset and the small dimensions of the lock case prevent a collision of cam and latch retention when the door is opened.

Mechanical lock GEZE IQ Lock M ...



... solutions round the door



The mechanical lock GEZE IQ Lock M

Scope of delivery mechanical lock set	
▪ GEZE IQ Lock M	optional:
▪ Strike plate	▪ Fittings in accordance with EN 1125

The GEZE panic bar – for panic locks with horizontal activation bar according to DIN EN 1125

The European Standard EN 1125 governs the application of and requirements to panic locks with horizontal activation bar. The European Standard EN 179 governs the application of and requirements to emergency exit locks with bars or push pads. Panic door locks and emergency exit locks always consist of lock and fittings and must be tested and certified jointly.

GEZE PANIC BAR

Please observe: If lock and fittings (not included in the scope of delivery GEZE) are delivered separately it must be observed that only tested, certified and marked products may be fitted to emergency exits.

Please make sure prior to installation that lock and fittings belong together by verifying the respective certificates and markings.



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For further information, for approvals and certificates regarding the GEZE IQ Lock please visit our website www.geze.com

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