SAFETY PRODUCTS

Dual interlock safety lock with RFID

MKey RFID

MKey RFID is a safety lock with dual interlocking function used to safely lock doors, gates and hatches.

In addition to the standard mechanical key, there is also an integrated RFID sensor. This makes it easy to reach the highest safety level.

The head of MKey RFID is always stainless-steel, but the body is available in plastic, die cast metal or stainless-steel to suit different demands.



Continuous operation

Easy trouble shooting
Extensive LED indication and status information reduce downtime.

Strong holding force
A holding force of up to 3000 N makes sure to keep the door closed.

Robust design
All models have a robust design.
For extra protection and resistance, models are available in stainless-steel housing with IP67/IP69K and a temperature range of -25 to +40°C suitable for F&B applications. Stainless steel models also offers good resistance to washdown with detergents.

Safety and protection

Interlock combined with safety lock
Both interlock and safety lock in the same product.

Easy to reach PL e / SIL3
The dual channel interlock (mechanical and RFID) makes it easy to reach the highest safety level for the interlocking function according to EN ISO 13849 and ISO 62061.
The locking function also reaches the highest safety level, if a fault exclusion for the mechanical breakage can be made, which is easiest to achieve with the handle accessories.

Easy to install

Fast installation
It is practical to have both the interlock and the safety lock in the same housing since only one product needs to be installed.
Mounting plates for both MKey and the handles simplify installation.

Minimum inputs needed
Cabling is minimized when using the M12 quick-connector.

MKey RFID

Features

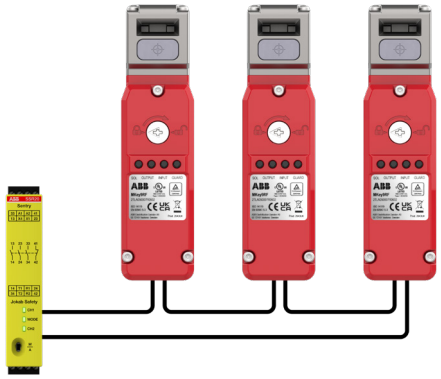
RFID

RFID (radio frequency identification) uses an electromagnetic field to trigger a response from the passive tag in the key. The keys for MKey RFID are individually coded using unique codes (30 million different codes). This corresponds to **High coding** according to EN ISO 14119.



OSSD series connection

Several locks can be connected in series, if OSSD signals are used for supervision of the interlocking function. (The locking function still needs to be controlled separately.)



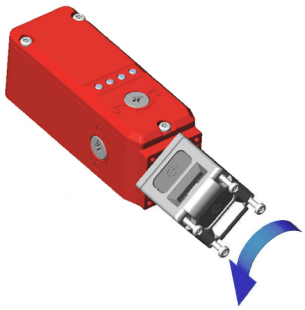
Rear escape release

The optional rear escape release is used to force the lock to unlock from the inside.



Rotatable head

The head of MKey RFID can be rotated into 4 different positions. The keys can be inserted both on the side and top of the head, resulting in 8 different mounting positions for MKey RFID.



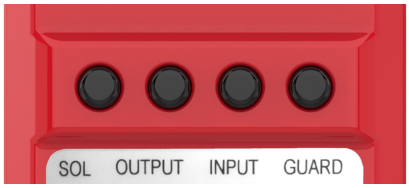
Emergency opening

In case of emergency, the lock can be forced to unlock from the outside using a screwdriver and turning the manual release on the front or side of MKey.



LED indications

The LEDs show the status of the guard/door, lock, inputs and outputs.





MKey9RF



MKey8RFQC



MKey8ZRF



MKey10RFER



Standard RFID key



Flexible RFID key



Stainless steel rotary handle right hand



Slide bolt left hand MKey8RF, MKey9RF



Rotary handle left hand for MKey10RF



Rear escape handle die cast left



Rear handle



Spring loaded catch

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MKey RFID safety lock

Note that an actuator is not included, so a key needs to be ordered separately.

Housing material	Extra features	Conduit/ Connector	Type	Order code
Plastic		M20	MKey9RF - No actuator - Plastic with M20 entry	2TLA050007R0602
		M12	MKey9RFQC - No actuator - Plastic with M12-quick-connect	2TLA050007R2602
Die cast		M20	MKey8RF - No actuator - Die cast with M20 entry	2TLA050011R0612
		M12	MKey8RFQC - No actuator - Die cast with M12-quick-connect	2TLA050011R2612
Stainless steel		M20	MKey8ZRF - No actuator - Stainless steel with M20 entry	2TLA050011R0622
		M12	MKey8ZRFQC - No actuator - Stainless steel with M12-quick-connect	2TLA050011R2622
Die cast	4 buttons[1)]	M20	MKey10RF - No actuator - Die cast with M20 entry	2TLA050012R0612
	4 buttons[1)], rear escape release	M20	MKey10RFER - No actuator - Die cast with M20 entry, Escape Release	2TLA050012R0652

1) Buttons from the Compact range of ABB Pilot Devices are suitable, see Pilot Devices Catalog for selection.

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Accessories

Function	Material	Suitable for	Type	Order code
Key	Plastic housing	MKey8RF, MKey8RFZ, MKey9RF, MKey10RF	Standard MKey RFID key	2TLA050040R0240
	Stainless steel	MKey8RF, MKey8RFZ, MKey9RF, MKey10RF	Flexible MKey RFID key	2TLA050040R0241
Slide bolt (key included)	Die cast	MKey8RF, MKey9RF	Slide bolt left hand for MKey8RF and MKey9RF, Standard actuator	2TLA050040R0503
			Slide bolt right hand for MKey8RF and MKey9RF, Standard actuator	2TLA050040R0504
		MKey10RF, MKey10RFER	Slide bolt left hand for MKey10RF and MKey10RFER, Standard actuator	2TLA050040R0505
			Slide bolt right hand for MKey10RF and MKey10RFER, Standard actuator	2TLA050040R0506
Rotary handle (key included)	Die cast	MKey8RF, MKey9RF	Die cast rotary handle left hand for MKey8RF and MKey9RF, Standard actuator	2TLA050040R0600
			Die cast rotary handle right hand for MKey-8RF and MKey9RF, Standard actuator	2TLA050040R0601
		MKey10RF, MKey10RFER	Die cast rotary handle left hand for MKey10RF and MKey10RFER, Standard actuator	2TLA050040R0604
			Die cast rotary handle right hand for MKey-10RF and MKey10RFER, Standard actuator	2TLA050040R0605
	Stainless steel	MKey8ZRF	Stainless steel rotary handle left hand, Standard actuator	2TLA050040R0602
			Stainless steel rotary handle right hand, Standard actuator	2TLA050040R0603
Rear escape handle	Die cast	MKey8RF, MKey9RF, MKey10RF, MKey10RFER	Rear escape handle die cast left	2TLA050040R0610
			Rear escape handle die cast right	2TLA050040R0612
	Stainless steel	MKey8ZRF	Rear escape handle stainless steel left	2TLA050040R0611
			Rear escape handle stainless steel right	2TLA050040R0613
Rear handle	Die cast	Slide handle	RHS GKey MKey Handle accessory	2TLA050040R0510
Spring loaded catch	Die cast	Slide handle	SCS GKey MKey Handle accessory	2TLA050040R0511

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