

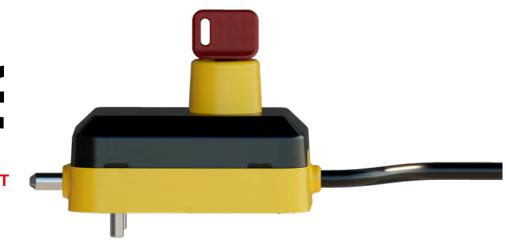
LOCKING WITH SMART DIGITAL RFID KEY 16 MILLION CODES, EQUIPPED WITH A SELF-LEARNING SYSTEM

LockGard®

Conformity:

ISO 13849-1 2015 EN 62061/A2 2015 EN 60947-5-3 2014 ISO 14119 2013 SIL3 PLe with AWAX26XXL / AWAX SOFT

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BY COMITRONIC-BTI

Interlocking safety device for rotary disconnect switch, power-on device, hazardous machine safeguard with input/output management by special RFID key control up to 16 million codes.



Technical Specifications

Technical Data

Feed Type	DC	
Voltage (Type/Min/Max)	24V +/-10%	
Current, mA (Max)	380	
IP (Box/Cable)	IP65/IP65	
Weight (Transmitter/Receiver)	300g	
Working temperatures	-25°C to +50 °C	
8-pin M12 connector	50 cm or 2.20 m	

Types of Errors

Error Type	Indication
Bad RFID code in the key	1 pulse
Bad input data	2 pulses
Inter-processor communication lost	3 pulses

Wire Colors

Color	Name	Contact	I/O Type	Maximum Voltage	Max Current
1 white	T11	LDP	NO	+48V	250mA
2 brown	+24V			+26.4V	380mA
3 green	AUX	PNP	NC	+26.4V	50mA
4 yellow	T21	LDP	NO	+48V	250mA
5 grey	T12	LDP	NO	+48V	250mA
6 pink	T22	LDP	NO	+48V	250mA
7 blue	0V				
8 red	Unlock	PNP	NO	+26.4V	2mA

Key

LDP: Potential-free

PNP: Switching to positive potential load NPN: Switching to negative potential load

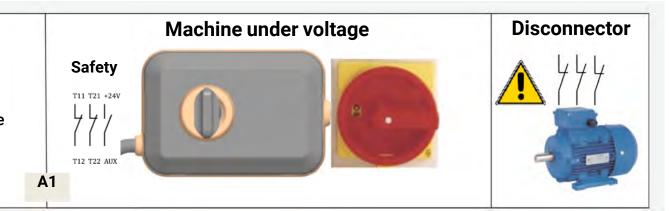
NO: Normally open NF: Normally Closed



The rotary disconnect switch is in the ON position, the machine is running, the key is trapped

Rotary disconnect switch and Lockgard® M1

- The latch is retracted
- The key is trapped (in position V)
- · The rotary disconnect switch is free to rotate
- contacts T11/T12 T21/T22 are closed
- · RFID identifiers are transmitted
- The indicator light is green



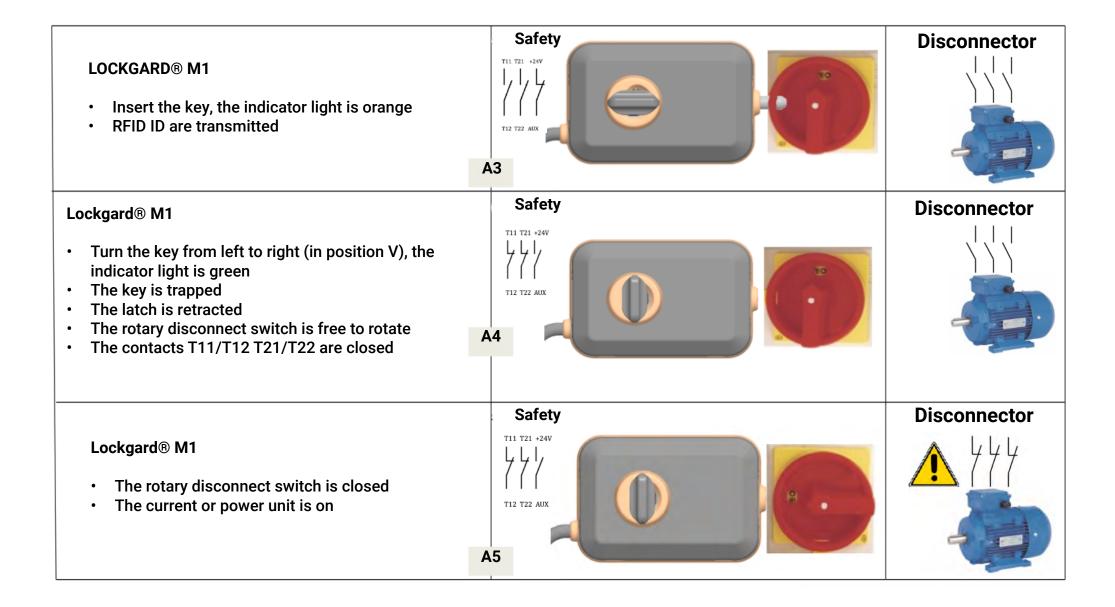


Stop the Machine

Safety **Disconnector** T11 T21 +24V Rotary disconnect switch and Lockgard® M1 · Turn the rotary disconnect switch to OFF T12 T22 AUX The current or power unit is closed **A3** Safety **Disconnector** Lockgard® M1 Activate the unlocking command (red UNLOCK wire), the indicator light is orange Turn the key from right to left (in position H), the indicator light is red The key is free The latch locks the rotary disconnect switch Contacts T11 / T12 T21 / T22 are open Safety **Disconnector** Lockgard® M1 Remove the key Loss of the key's RFID ID T12 T22 AUX A5



Restart the Machine



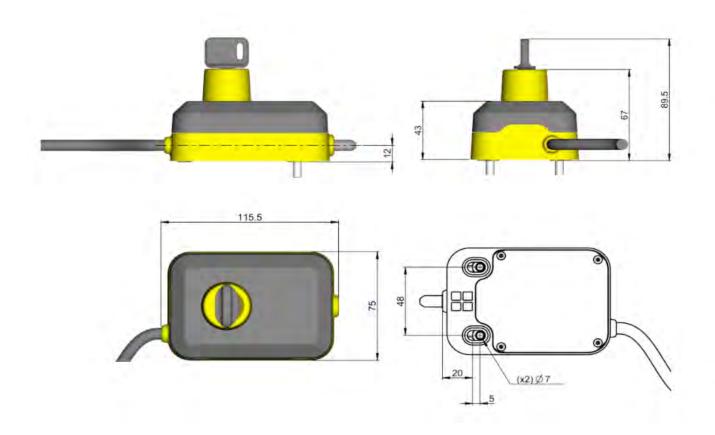


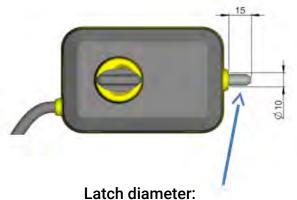
Hazardous machine safeguard locking with input/output management

Safety Lockgard® M2 T11 T21 +24V The latch is out, the door is locked The key in position H is trapped RFID ID are transmitted T12 T22 AUX The contacts T11/T12 T21/T22 are closed The indicator light is green E1 Safety Lockgard® M2 Activate the unlocking command (red UNLOCK wire), the indicator light is orange Turn the key from right to left (in position H), the indicator light is red The latch is retracted The key is free Contacts T11 / T12 T21 / T22 are open **E2** Safety Lockgard® M2 **Key missing** The key is removed and the operator enters the dangerous zone in complete safety RFID ID are no longer transmitted The key is trapped, it is not possible to close the contacts T11/T12 T21/T22 **E3**



Dimensions





ø10 : Lockgard®_M2 ø6 : Lockgard®_M1





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