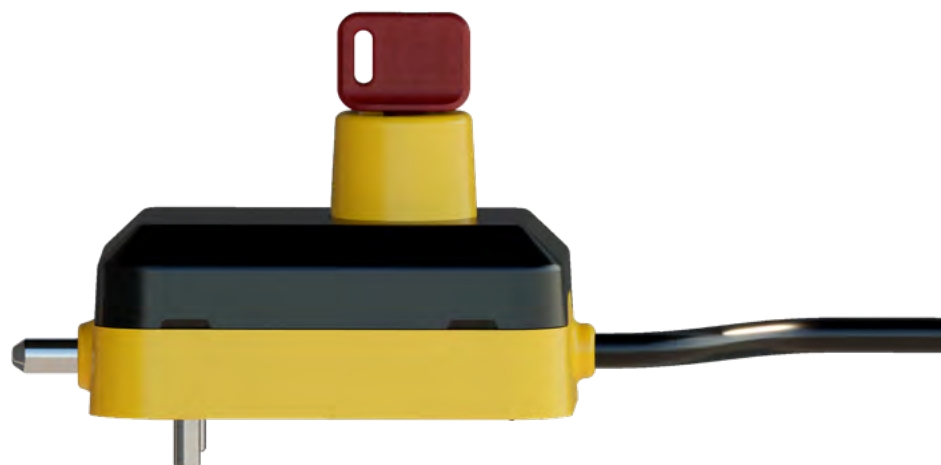


**LOCKING WITH SMART DIGITAL RFID KEY
16 MILLION CODES, EQUIPPED WITH A SELF-LEARNING SYSTEM**

LockGard®

Conformity:

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



2 IN 1

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

A1

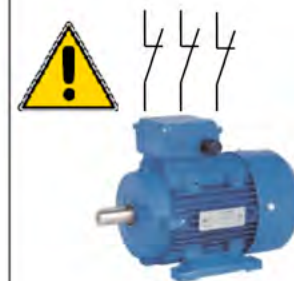
Machine under voltage

Safety







T11 T21 +24V
T12 T22 AUX









Disconnecter



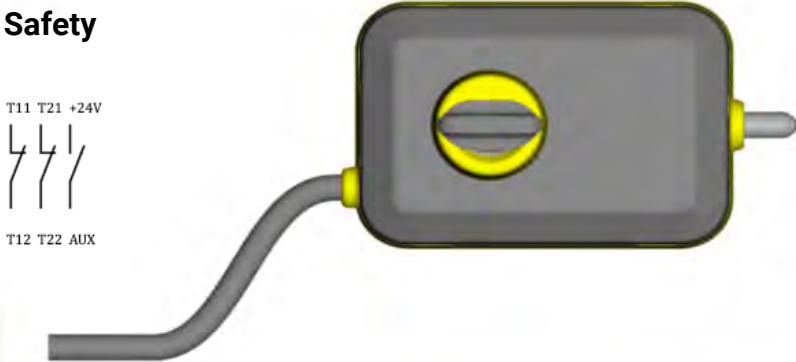

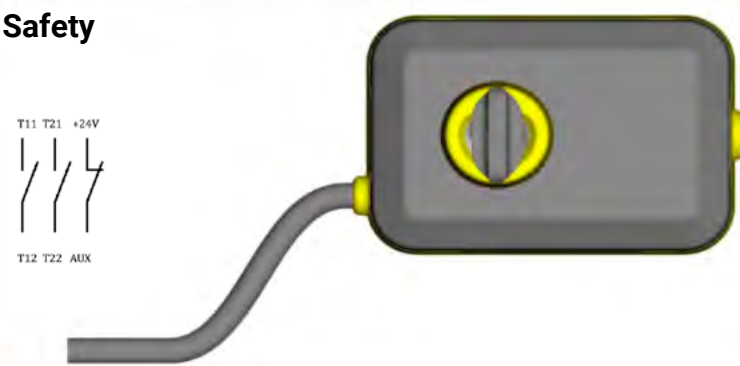
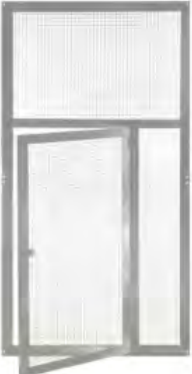


Stop the Machine

<p>Rotary disconnect switch and Lockgard® M1</p> <ul style="list-style-type: none"> • Turn the rotary disconnect switch to OFF • The current or power unit is closed 	<p>Safety</p>  <p>A3</p>	<p>Disconnecter</p> 
<p>Lockgard® M1</p> <ul style="list-style-type: none"> • 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 	<p>Safety</p>  <p>A4</p>	<p>Disconnecter</p> 
<p>Lockgard® M1</p> <ul style="list-style-type: none"> • Remove the key • Loss of the key's RFID ID 	<p>Safety</p>  <p>A5</p>	<p>Disconnecter</p> 

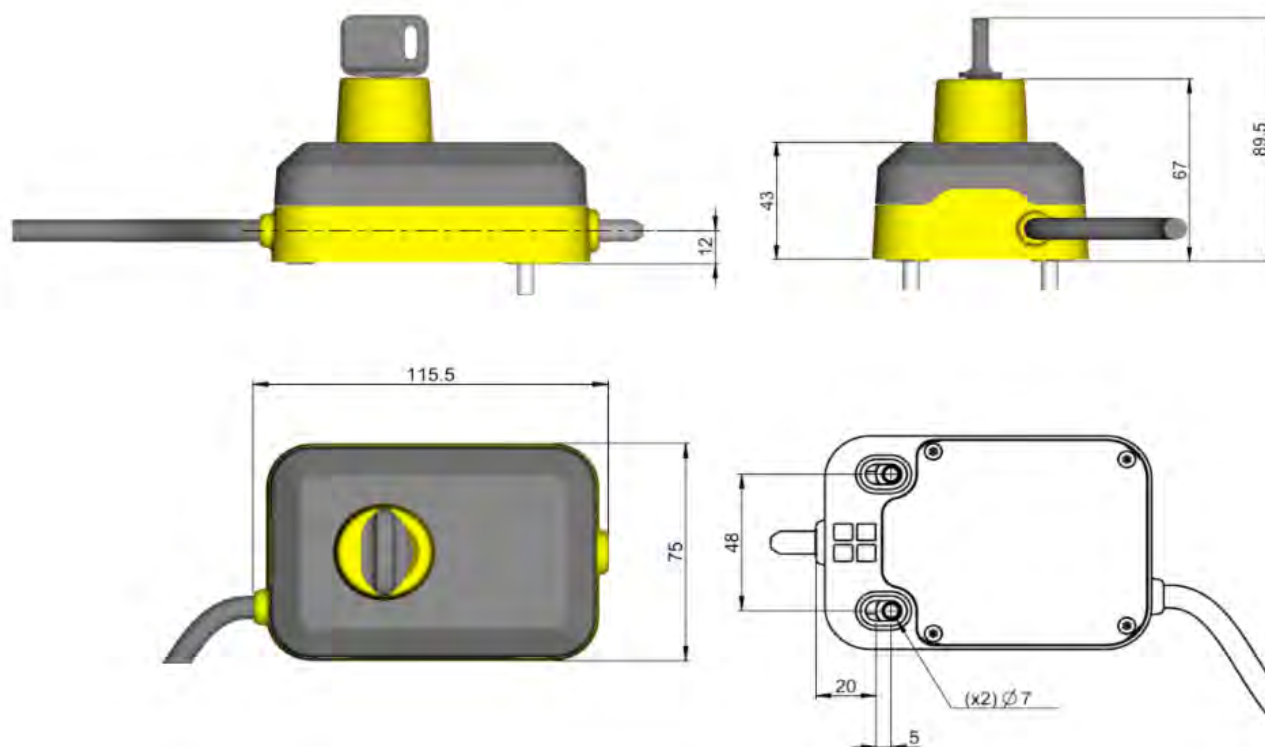
Restart the Machine

<p>LOCKGARD® M1</p> <ul style="list-style-type: none"> • Insert the key, the indicator light is orange • RFID ID are transmitted 	<p>Safety</p>  <p>A3</p>	<p>Disconnecter</p> 
<p>Lockgard® M1</p> <ul style="list-style-type: none"> • Turn the key from left to right (in position V), the indicator light is green • The key is trapped • The latch is retracted • The rotary disconnect switch is free to rotate • The contacts T11/T12 T21/T22 are closed 	<p>Safety</p>  <p>A4</p>	<p>Disconnecter</p> 
<p>Lockgard® M1</p> <ul style="list-style-type: none"> • The rotary disconnect switch is closed • The current or power unit is on 	<p>Safety</p>  <p>A5</p>	<p>Disconnecter</p> 

Hazardous machine safeguard locking with input/output management

<p>Lockgard® M2</p> <ul style="list-style-type: none"> • The latch is out, the door is locked • The key in position H is trapped • RFID ID are transmitted • The contacts T11/T12 T21/T22 are closed • The indicator light is green 	<p>Safety</p>  <p>T11 T21 +24V T12 T22 AUX</p> <p>E1</p>	
<p>Lockgard® M2</p> <ul style="list-style-type: none"> • 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 	<p>Safety</p>  <p>T11 T21 +24V T12 T22 AUX</p> <p>E2</p>	
<p>Lockgard® M2</p> <ul style="list-style-type: none"> • 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 	<p>Safety Key missing</p>  <p>T11 T21 +24V T12 T22 AUX</p> <p>E3</p>	

Dimensions



Latch diameter:
 $\varnothing 10$: Lockgard®_M2
 $\varnothing 6$: Lockgard®_M1



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