RONIS
Locks for electrical application

INTERLOCK SYSTEMS

For HV/MV equipment
Switchgear-Breakers-Transformers

- Body 100% metal
- High Security
- Indoor and Outdoor application
About us

Created in 2004, SECUMS Interlocks is the only specialist in Key Operated Interlocks and Safety Gate Switch Interlocks who offers “all out of one hand” interlock solutions for a wide scope of industrial safeguarding applications. Our company, based in Neuilly-Plaisance France studies, develops and designs interlock systems for machine guarding, power generation and –distribution systems up to interlocks for valves in the oil & gas Industry.

Attentive to the needs of our customers, and thanks to our product development cycle, we offer you an ever wider range of products.
This catalogue provides information on our RONIS interlock systems for Electrical Switchgear and HV/MV Equipment, which offers a wide selection of locks divided into five product groups:

• Bolt locks
• Access locks
• Key exchange units
• Solenoid controlled switchlocks
• Cam Locks and Key Switches

The Ronis range supplied by SECUMS Interlocks complies with the highest ingress protection standard of IP 67, and manufactured completely in stainless steel ideal for use even in the harshest environments.

The RONIS series is designed to guarantee that operating actions and events are undertaken in a predetermined sequence ensuring a safe working environment. It implements tailored interlocks which force all operators to comply with a logical predetermined operating procedure through a system of key transfer. Entirely in stainless steel, the locks are designed around a strong steel case, and suitable for use under the harshest environmental conditions.

Our product offering includes the design of innovative on demand products at the best price to quality ratio. We constantly listen to our clients to offer the solution that best fits their needs.
In recognition of our know-how and of the quality of our products, we have been certified ISO9001/2008

Our Commitment:

Client satisfaction is our top level priority.
All the company’s activity tend towards your satisfaction, as to provide you with innovative, reliable and available packages in the field of safety in heavy Duty facilities.

We work in strict compliance with ecologic constraints by offering you products that can be 100% recycled and reused.

As to ensure long term development of the company, SECUMS Interlocks relies only on private investors who share our view of long term growth.

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**Product group Characteristics**

**EL Bolt Interlock**
The EL Bolt Interlock is designed for locking off electrical switchgear isolators and earthing devices. The standard unit is supplied with a 10mm diameter bolt which is 6mm in length when the key is trapped and 18mm when the key is released. The bolt movement is directly controlled by the rotation of the key.

**ELP Door Interlock**
The ELP door interlock is suitable for use on all types of hinghed doors on panels, cabinets and transformers. The Ronis key can be removed only when the door is closed and the striker plate is locked in position.

**ELC Exchange Box**
The ELC Exchange Box is designed to enable the release of extra keys by inserting an initial key. This may be required when access to multiple ELP door interlocks is needed.

**EMC Solenoid controlled Switchlocks**
An energised solenoid enables key release after rundown time or operating cycle completion and prevents unauthorized restart. This unit is generally used in conjunction with the ELP series of Access interlocks.

**Camlocks**
The cam locks are designed to release their keys only when the electrical switchgear is in the desired position, either locked ON or locked OFF. Whilst the key is released the desired position cannot be altered. Camlocks are normally used on circuit breakers. They can also be used for switches and earthing switches on most medium-voltage switchgear.

**Limit Switch Module add on IP67**
Limitswitch modules are available for control and monitoring to add on EL and ELP interlocks. Ronis limitswitch modules supplied by SECUMS Interlocks comply with the highest ingress protection standard of IP 67, and designed around a strong steel case ideal for use in even the harshest environments.

**Key coding and marking**

*Marking of the key codes*

*Marking of the clients marks*
Bolt lock
1 bolt & 1 key

Lock with 1 bolt & 1 key

Characteristics:
- Case and bolt in stainless steel
- Bolt diameter: 10mm
- Bolt stroke: 12 mm
- Rear bolt shape: square 10mm
- Nickel-plated and chrome finished cylinder
- Metal key

Operating Principle:
Bolt position shot: L= 18mm – Key released
Bolt position withdrawn: L= 6mm – Key trapped

Options:
Length bolt position shot L=35mm
ref:EL11AP35
EL12AP
EL12BP

Bolt lock
1 bolt & 2 keys

Characteristics:
- Case and bolt in stainless steel
- Bolt diameter: 10mm
- Bolt stroke: 12 mm
- Rear bolt shape: square 10mm
- Nickel-plated and chrome finished cylinder
- Metal key

Operating Principle:
EL12AP
Bolt position shot: L=18mm – Key 1 released and key 2 trapped (boltposition)
Bolt position withdrawn: L=6mm – Key 1 trapped and key 2 released

EL12BP
Bolt position shot: L=18mm – Keys 1 and 2 released
Bolt position withdrawn L=6mm – Keys 1 and 2 trapped

Options
Length bolt position shot L=35 mm ref: EL12AP35/EL12BP35

Lock with 1 bolt (right side) & 2 keys

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Bolt lock
1 bolt & 2 keys

Lock with 1 bolt (left side) and 2 keys

**Characteristics:**
- Case and bolt in stainless steel
- Bolt diameter: 10mm
- Bolt stroke : 12 mm
- Rear bolt shape : square 10mm
- Nickel-plated and chrome finished cylinder
- Metal key

**Operating Principle:**
**EL12CP**
Bolt position shot: L = 18mm - 2 released keys
Bolt position withdrawn: L= 6mm - 2 captive keys

**EL12GP**
Bolt position shot: L=18mm – Key 1 trapped and key 2 released (boltposition)
Bolt position withdrawn: L= 6 mm – Key 1 realeased and key 2 trapped

**Options:**
Length bolt position shot : L=35 mm ref :EL12CP35/ EL12GP35
Lock with 1 bolt & 3 keys

**Characteristics:**
- Case and bolt in stainless steel
- Bolt diameter: 10mm
- Bolt stroke: 12 mm
- Rear bolt shape: square 10mm
- Nickel-plated and chrome finished cylinder
- Metal key

**Operating Principle:**

**EL13AP**
Bolt position shot: L=18mm - key 1 released, keys 2 et 3 trapped
Insert Key 1, rotate 180°, Bolt position in: L=6mm - Key 1 trapped.
Turn Key 2 180°, key 2 released.
Turn Key 3 180°, key 3 released.

**EL13BP**
Bolt position shot: L=18mm - key 1 trapped and keys 2 et 3 released.
Insert key 3, turn 180°,
Insert key 2, turn 180°,
Rotate key 1 180°, Bolt position withdrawn: L=6mm - key 1 released. Keys 2 et 3 trapped.

**EL13EP**
Bolt position shot: L=18mm - Keys 1, 2 and 3 released.
Bolt position withdrawn: L=6mm - Keys 1, 2 et 3 trapped.

**Options:**
Length bolt shot L=35 mm ref: EL13AP35/ EL13BP35/ EL13EP35

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Lock with 2 bolts

Characteristics:
- Case and bolt in stainless steel
- Bolt diameter: 10mm
- Bolt stroke: 12 mm
- Rear bolt shape: square 10mm
- Nickel-plated and chrome finished cylinder
- Metal key

Operating Principle:

EL22AP
Bolt 1 position shot: L=18mm - Key 1 released.
Bolt 2 position withdrawn: L=6mm - Key 2 trapped.
Insert key 1 and turn 180°. Bolt 1 position withdrawn: L=6mm – Key 1 trapped
Turn key 2 180°, Bolt 2 position shot: L=18mm – Key 2 released

EL22BP
Bolt 1 position shot: L=18mm – Key 1 released.
Bolt 2 position withdrawn: L=6mm – Key 2 trapped.
Insert Key 1 and turn 180°. Bolt 1 position in: L=6mm – Key 1 trapped
Turn key 2 180°, Bolt 2 position out: L=18mm – key 2 released

Options:
Length bolt shot L=35 mm ref: EL22AP35/ EL22BP35
**EL11AP MCU**

**Bolt lock with limit switch**

**Lock 1 bolt - 1 key with limit switch**

**Characteristics:**
- Case and bolt in stainless steel
- Bolt diameter: 10mm
- Bolt stroke: 12 mm
- Rear bolt shape: square 10mm
- Nickel-plated and chrome finished cylinder
- Metal key

**Electrical features:**
- AC-15: 400V/4A; 230V/6A; 115V/6A
- DC-13: 220V/3A; 110V/0.8A; 24V/3A
- Ingress Protection: IP67
- Switch 1NO+1NC ref: MCUOF
- Switch 2NO key released ref: MCU2O
- Switch 2NO+1NC key released ref: MCU2OF

**Operating Principle:**
The rear bolt operates the limit switch.

**EL11AP-MCU**
- Bolt position out: L=18mm – Key released.
- Bolt position in: L=6mm – Key trapped.

**EL11BP-MCU**
- Bolt position out: L=18mm – Key trapped.
- Bolt position in: L=6mm – Key released.

**Options:**
Contact 2NO – Key 1 released ref: EL11AP-MCU20/EL11BP-MCU20
Bolt length: L:35 mm ref: EL11AP35-MCU/EL11BP35-MCU
Lock 1 bolt-2 keys with limit switch

**Characteristics:**
- Case and bolt in stainless steel
- Bolt diameter: 10mm
- Bolt stroke: 12 mm
- Rear bolt shape: square 10mm
- Nickel-plated and chrome finished cylinder
- Metal key

**Electrical features:**
- AC-15: 400V/4A; 230V/6A; 115V/6A
- DC-13: 220V/3A; 110V/0.8A; 24V/3A
- Ingress Protection: IP67
- Switch 1NO+1NC ref: MCUOF.
- Switch 2NO key released ref: MCU2O
- Switch 2NO+1NC key released ref: MCU2OF

**Operating Principle:**
The rear bolt operates the limit switch.

- **Bolt position shot:** L=18mm – Key released.
- **Bolt position withdrawn:** L=6mm – Key trapped.

**Options:**
Contact 2NO – Key 1 released ref: EL12AP-MCU2O
Length bolt = 35 mm ref: EL12AP35-MCU

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Access lock with 1 key

**Characteristics:**
- Case and bolt in stainless steel
- Nickel-plated and chrome finished cylinder
- Metal key

**Electrical features:**
- AC-15: 400V/4A; 230V/6A; 115V/6A
- DC-13: 220V/3A; 110V/0,8A; 24V/3A
- Ingress Protection : IP67
- Switch 1NO+1NC ref: MCUOF
- Switch 2NO key released ref : MCU2O
- Switch 2NO+1NC key released ref : MCU2OF

**Operating Principle:**
The key can be withdrawn when the striker plate is engaged in the lock.

Closed door: key released.

Opened door: Key trapped.

**Options:**
- Special striker plates.
- Key not provided (on request).

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Compact access lock with 1 key

Compact Access Lock with 1 Key

Characteristics:
- Case and Latch in stainless steel
- Nickel-plated and chrome finished cylinder
- Metal Key

Option electrical contact – detection Latch locked
- AC-15: 400V/4A; 230V/6A; 115V/6A
- DC-13: 220V/3A; 110V/0.8A; 24V/3A
Ingress Protection : IP67
Cable length 1 meter- other length on demand
Switchover contact OC – 1 m cable Ref: OF1M
Switch contact 1NO+1NC-cable 1m Ref: O+F1M
Switch contact 2NC- cable 1m Ref: F+F1M

Operating Principle:
The key cannot be removed when the latch is engaged in the lock.
Access closed: key free
Access open: key trapped

Option:
Special Latch
Shaft diameter 5mm ref : ELP1AX
Supplied without Key (on request)

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The key cannot be removed when the latch is engaged in the lock.

Access closed: key free
Access open: key trapped

Option:
Special Latch
Shaft diameter 5mm ref: ELP1AX
Supplied without Key (on request)

3 Point Access Lock with 1 Key

Characteristics:
- Stainless steel case and striker
- Nickel and chrome plated cylinder
- Metal key
- Lock 3 points (special enclosed IP67)
- Crank operation integrated in cylinder

Option electrical contact – detection Latch locked
- AC-15: 400V/4A; 230V/6A; 115V/6A
- DC-13: 220V/3A; 110V/0,8A; 24V/3A
Ingress Protection: IP67
Cable length 1 meter- other length on demand
Switchover contact OC – 1 m cabel Ref: OF1M
Switch contact 1NO+1NC-cable 1m Ref: O+F1M
Switch contact 2NC- cable 1m Ref: F+F1M

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Access lock with 1 key and limit switch

Access lock with 1 Key and Limit Switch

**Characteristics:**
- Case and striker in stainless steel
- Nickel-plated and chrome finished cylinder
- Metal Key
- Monitoring locked striker position

**Electrical features:**
- Contact 1NO+1NC ref: MCUOF,
- Contact 2NO key free ref: MCU2O
- Contact 2NO+1NC key free ref: MCU2OF
- Ingress Protection: IP67
- AC-15: 400V/4A; 230V/6A; 115V/6A
- DC-13: 220V/3A; 110V/0,8A; 24V/3A

**Operating Principle:**
The key cannot be removed when the latch is engaged in the lock.

**Access closed:** key free

**Access open:** key trapped

**Option:**
Special Latch
Supplied without Key (on request)

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Access lock with 2 keys

**Characteristics:**
- Case and bolt in stainless steel
- Nickel-plated and chrome finished cylinder
- Metal key

**Electrical features:**
- AC-15: 400V/4A; 230V/6A; 115V/6A
- DC-13: 220V/3A; 110V/0.8A; 24V/3A
- Ingress Protection : IP67
- Switch 1NO+1NC ref: MCUOF,
- Switch 2NO key released ref :MCU2O
- Switch 2NO+1NC key released ref : MCU2OF

**Operating Principle:**

**ELP2**
Closed door: striker plate engaged – Keys 1 and 2 released.
Open door: Keys 1 et 2 trapped.

**ELP2SP**
Closed door: striker plate engaged - Key 1 released and key 2 trapped.
Open door: Key 1 trapped and key 2 released.

**Option:**
Special striker plates.
Doorlock with 3 Keys

**Characteristics:**
- Case and bolt in stainless steel
- Nickel-plated and chrome finished cylinder
- Metal key

**Electrical features:**
- AC-15: 400V/4A; 230V/6A; 115V/6A
- DC-13: 220V/3A; 110V/0,8A; 24V/3A
- Ingress Protection : IP67
- Switch 1NO+1NC ref: MCUOF,
- Switch 2NO key released ref :MCU2O
- Switch 2NO+1NC key released ref : MCU2OF

**Operating Principle:**
**ELP3**
*Closed door:* striker engaged - Keys 1, 2 and 3 released.
*Opened door:* Keys 1, 2 and 3 trapped.

**ELP3SP**
*Closed door:* striker engaged - Key 1 trapped, Keys 2 and 3 released.
*Opened door:* Key 1 released, Keys 2 and 3 trapped. The Keys 2 and 3 can be removed only when the striker plate is engaged.

**Option:**
Special striker plates

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**Key exchange unit**

**Characteristics:**
- Box and lockingbolts in stainless steel
- Nickel-plated and chrome finished cylinder
- Metal key

**Operating Principle:**
The prime lock is defined by the number of released keys and captive keys in the initial state.

For the ELC12 Interlock as an example:
Insert and turn key 1 which becomes trapped. Turn and release key 2 and then turn and release key 3.

**Initial state:** key 1 is released, keys 2 and 3 are trapped.
Insert and turn key 1, key becomes trapped. Then, turn and release key 2 and then, turn and release key 3.

**Final State:** key 1 is trapped, keys 2 and 3 are released.

<table>
<thead>
<tr>
<th>DESIGNATION</th>
<th>NB OF LOCKS</th>
<th>OBSERVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELC11</td>
<td>2</td>
<td>1 released key / 1 captive key</td>
</tr>
<tr>
<td>ELC12</td>
<td>3</td>
<td>1 released key / 2 captive keys</td>
</tr>
<tr>
<td>ELC13</td>
<td>4</td>
<td>1 released key / 3 captive keys</td>
</tr>
<tr>
<td>ELC22</td>
<td>4</td>
<td>2 released keys / 2 captive keys</td>
</tr>
<tr>
<td>ELC14</td>
<td>5</td>
<td>1 released key / 4 captive keys</td>
</tr>
<tr>
<td>ELC23</td>
<td>5</td>
<td>2 released keys / 3 captive keys</td>
</tr>
<tr>
<td>ELC15</td>
<td>6</td>
<td>1 released key / 5 captive keys</td>
</tr>
<tr>
<td>ELC24</td>
<td>6</td>
<td>2 released keys / 4 captive keys</td>
</tr>
<tr>
<td>ELC33</td>
<td>6</td>
<td>3 released keys / 3 captive keys</td>
</tr>
<tr>
<td>ELC16</td>
<td>7</td>
<td>1 released key / 6 captive keys</td>
</tr>
<tr>
<td>ELC25</td>
<td>7</td>
<td>2 released keys / 5 captive keys</td>
</tr>
<tr>
<td>ELC34</td>
<td>7</td>
<td>3 released keys / 4 captive keys</td>
</tr>
<tr>
<td>ELC17</td>
<td>8</td>
<td>1 released key / 7 captive keys</td>
</tr>
</tbody>
</table>

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Camlock
30 mm diam. cylinder

Characteristics:
- Nickel-plated and chrome finished cylinder
- Metal key

Operating Principle:
- Rotating the Key = rotation of the cam : 1/4 turn right or left
- Fixation to the panel with nut (panel thickness 0.8 to 10mm)
- A wide range of cams can be adapted to this cylinder lock.

Possibilities:
- Right opening position ref: 1104B
- Left opening position ref: 1104A

Options:
- 1/2 turn rotation
- Square adaptor 15 mm ref: 1104.30

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Camlock

23 mm diam. cylinder

**Characteristics:**
- Nickel-plated and chrome finished cylinder
- Metal key

**Operating Principle:**
- Rotation key = movement of the cam: 1/4 turn right or left.
- Fixation to the panel with nut (panel thickness 0.8 to 10 mm)
- A wide range of cams can be adapted to this cylinder lock.

**Options:**
Key rotation
- Clockwise rotation ref: 1351B
- Counterclockwise rotation ref: 1351A
Camlock with 5mm operating pin

Camlock

Characteristics:
- Nickel-plated and chrome finished cylinder
- Metal key
- Cam with operating pin diam. 5mm

Operating Principle:
- Rotating key = movement of the cam: 1/2 turn right or left.
- Fixation to the panel with a screw M3.5
- A wide range of cams can be adapted to this cylinder lock.

Options:
Key rotation
- Clockwise rotation ref: 1049B
- Counterclockwise rotation ref: 1049A
- 1/4 turn rotation ref: 1049-35-4

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Cam switch lock

Camlock with changeover switch

**Characteristics:**
- Nickel-plated and chrome finished cylinder
- Key Metal
- Galvanized steel contact support

**Electrical characteristics:**
- Crouzet changeover switch 83161.118 Faston terminals:
  - **Nominal:** 5 A
  - **Thermal:** 17.5 A
- Trapped key contact ref: 1083B2
- Released key contact ref: 1083A2

**Operating Principle:**
- Rotation key = movement of the cam: 1/4 turn right or left operation of the switch
- Fixation to the panel with nut (panel thickness 1 to 2 mm)

**Options:**
Establishment of multiple switch functionality by adding extra change over switch:
- 1 change over switch ref: 1083B216
- 2 change over switches ref: 1083B218

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Key switch rotating

Characteristics:
- Nickel-plated and chrome finished cylinder
- Key Metal
- Support Stainless Steel 304
- BOB Mounting
- Contacts:1NO+1NC key free ref: 1O1F
- Contacts:2NO2NC key free ref: 2O2F
- Contacts:3NO1NC key free ref: 3O1F
- Contacts:4NO key free ref: 4O

Electrical features:
Max Power use:
3x230V : 4kW, 3x400V : 7.5kW

Operating Principle:
Key rotation ¼ Turn – direct / positive drive switch operation
Fixation sur support par écrou, prévue pour épaisseur de support de 1 à 2mm.
BOB panelmounting with fixing nut, panel thickness 1-2mm max.

For further informations: [http://www.secums-interlocks.com](http://www.secums-interlocks.com) - Tel.: 00 33 (0)1 43 08 65 31 Fax: 00 33 (0)1 43 08 97 20
**Solenoid controlled switch lock**

**Characteristics:**
- 1 to 3 locks (keys), multi-key ref: 2E, 3E
- 2NO+2NC contacts + 2 solenoid position control contacts (positive breaking safety contacts)
- 100% Solenoid Duty Cycle, LED, PushButton, override key
- Nickel-plated and chrome finished cylinder
- Key Metal

**Electrical characteristics:**
- 24 Volts DC/AC 13W power supply
- 2NC Switch AC21 12A

**Option:**
- Stainless steel enclosure IP55 see ref: EMC-IP55

---

**Operating Principle:**
Solenoid controlled single-key or multi-key switch interlock. Suitable for use in high-risk, category 4 applications

**Options:**
- 2O2F contact – key trapped (7.5kW sous 400V, 4kW sous 230V) ref: EMC-2NO+2NC
- 230 Volts AC ref: EMC-230VCA
- 110 Volts AC ref: EMC-110VCA
- 125 Volts AC ref: EMC-125 VCC
Solenoid controlled switch lock with IP55M enclosure

**Principe:**
Energised solenoid enables key release after rundown time or operating cycle completion and prevents unauthorized restart.

**Options:**
- 2NO+2NC switch – key trapped (7.5kW sous 400V, 4kW sous 230V) ref: EMC-2NO+2NC
- 230 Volts AC ref: EMC-IP55-230VCA
- 110 Volts AC ref: EMC-IP55-110VCA
- 125 Volts DC ref: EMC-IP55-125 VCC

**Characteristics:**
- in IP55 enclosure
- 1 to 3 locks (keys), multi-key ref: 2E, 3E
- 2NO+2NC contacts + 2 solenoid position control contacts (positive breaking safety contacts)
- 100% Solenoid Duty Cycle, LED, Push Button, override key
- Nickel-plated and chrome finished cylinder
- Key Metal
- Stainless Steel 316 IP55 enclosure

**Electrical characteristics:**
- 24 Volts DC/AC 13W power supply
- 2NC switch AC21 12A

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Padlocks for European ½ Cylinders

**Characteristics**
- Solid brass body
- Hardened Steel shackle – Double locking
- Replaceable cylinder
- Quick installation
- Brass Key
- Shackle diameter 8 mm - height 56 mm
- Body 47 x 50 x 27 mm
Seculok range

- Bolt lock - BLT
- Acess lock - ACS
- Rotary lock - SWL

Seculok IVL range

- VPH – Lock for pneumatic and hydraulic control valves
- MTL - Lock for handwheel operated valves
- 90L - Lock for lever operated valves

For further informations: [http://www.secums-interlocks.com](http://www.secums-interlocks.com) - Tel.: 00 33 (0)1 43 08 65 31 Fax: 00 33 (0)1 43 08 97 20
Distributors

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