SECULOK range

Interlocks for Heavy Duty Applications

Trapped Key & Safety Gate Switch

Interlocks

- 100% Stainless Steel 316L
- For all Operating Conditions
- Flexible Modular configuration

Edition October 2013
SECUMS Interlocks

Created in 2004 and based in Neuilly Plaisance in the Paris area, SECUMS Interlocks designs and manufactures the complete range of SECULOK products. SECUMS Interlocks Trapped Key technology provides up to SIL 3 (EN/IEC 62061), Category 4 and PLe (EN/ISO 13849-1) use suitable mechanical and electro-mechanical safety Interlocking solutions for use in a wide range of heavy duty guarding applications.

Since our company permanently listens to your needs, and thanks to our product development cycle, we offer you an ever wider range of products.

Expertise

Our expertise covers a wide scope of industrial heavy duty safeguarding applications from machine guarding, power generation and -distribution system interlocking to valve interlocking. Recently developed products included in this catalogue as an example of our innovative design and engineering capabilities are:

- **SCB15**: New design of solenoid controlled bolt lock with single or multiple operating key and/or optional safety key. The SCB features a unique compact design and meets with the highest standards for power locking applications.

- **ASCL**: New design of a robust solenoid controlled safety Gate Switch Interlock. The ASCL features a compact robust design, with optional access or safety key controls. The compact design and reliable locking latch provides for optimal safety in the harshest operating conditions.

SECUMS Interlocks Advantages

SECUMS Interlocks is an “all out of one hand” guarding solution provider, specialized in complementing his product offering with the design of innovative on demand products at the best price to quality ratio.

SECULOK modular system configuration offers you unmatched user flexibility and economics. SECULOK offers a for all industrial applications compatible key system, inclusive Valve Interlocking. SECULOK products are manufactured in full Stainless Steel 316L as a standard. SECULOK provides you with the best key management set up. SECULOK re-codeable locks and keys enables you to change your safety system by adding keys without having to replace existing locks.

SECUMS Interlocks implemented the ISO 9001/2008 certification procedures to constantly improve it service.

Our Values

*Client satisfaction is our top level priority.*

*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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**Characteristics:**

- 2 key types with incorporated lock ingress protection:
  - **CQ:** *Standard* with over torsion breakpoint to protect the lock in case of operator over torsion operation attempt.
  - **CQC:** *Compact* for limited space environments, key marking on both key wing sides.
- Key combinations: 1080 attributed by SECUMS Interlocks.
- Marking: Standard: per identification ref. specified below.
  - Customized: max. 3 rows-6 characters per row.

**Materials:** Stainless Steel 316L

**Options:**

- **PC:** Spare key with key tag (marking both sides on request)
- **MK:** Master key on request (not advised considering risk of abuse)

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**Standard Key Identification:**

- For Operation keys: P1, P2, P3, P4, P5, P6, P7, P8, P9, P0
- For Safety keys: SAFETY P1, SAFETY P2, …
- For Spare keys: « DANGER SPARE KEY », for safety reasons, they are delivered with key tag on which a warning printed on a red label.

In case of key loss, we advise you to have all locks recoded.

**References examples:**

- **CQ:** Standard key with incorporated lock ingress protection.
- **CQC-PC:** Compact key with incorporated lock ingress protection and key tag
- **CQ:** Standard key coding with combination AR0 and P1 marking.
- **CQC-SP:** Spare key if resupplied, please specify the coding type and the coding position (ex:AR0)
### Key locking panel for max 5 padlock able Emergency Keys

**Ref:** RAT-SE

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**1080 "standard" Key Combinations available, other combinations on request**

<table>
<thead>
<tr>
<th>Client</th>
<th>N° de compte</th>
<th>Dipl.</th>
<th>Ville</th>
<th>CLIENT ou site FINAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clé - A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clé - B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clé - C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clé - D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clé - E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clé - F</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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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

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**Characteristics:**
- For Switch, Switchgear or valve locking
- At choice 8, 10 or 15 mm diam. Bolt ref: 8, 10 or 15
- Available up to 5 lock modules ref: 2E, 3E, 4E, 5E
- 15 mm bolt movement
- Exchange between keys: see drawings. examples type T2 to T4

**Materials:** Stainless Steel 316

**Options:**
- Lock Dustcover ref:CE
- Electrical contacts:
  - 1NO+1NC ref: MCUOF
  - 2NO (free key, extended bolt) ref: MCU2O
  - 2NC (free key, extended bolt) ref: MCU2F
- Contacts in panelmounting position ref: INV
- Reverted bolt behavior, key free when bolt retracted ref: PR

**Operating Principle:**
Key free when bolt extended. Key trapped and bolt retracted after inserting and turning the key
Key exchange options from 2E: T1=both keys free when bolt extended , T2=1/2, T3=1/2+3, T4=1+2/3
Key 1 is always the one operating the bolt. T2 to T4 are « exchange » conditions

**References examples:**
BLT8-CE: Ø 8 bolt lock, 1 key (free with extended bolt) and dustcover
BLT10-CE-MCUOF: Ø 10 bolt lock, 1 key (free with extended bolt) and dustcover, contact 1NO+1NC
BLT15-2E-T1-CE: Ø 15 bolt lock, 2 keys (free with extended bolt) and dustcovers
BLT10-3E-T4-CE: Ø 10 bolt lock, 3 keys (1 free, 2 trapped with extended bolt) and dustcovers
Consignment lock with padlock

**Operating Principle:**
Key free when bolt trapped. Key trapped and bolt extended, padlock installed after inserting and turning the key.

**Characteristics:**
Consignment key trapped by padlock
Available up to 5 lock modules ref: 2E, 3E, 4E
- Hense of padlock diameter 6 mm max

**Materials:** Stainless Steel 316

**Options:**
- Lock Dustcover ref: CE
- Electrical contacts:
  1NO+1NC ref: MCUOF
  2NO (free key, extended bolt) ref: MCU2O
  2NC (free key, extended bolt) ref: MCU2F

**References examples:**
BLTHC-CE: 1 key lock, 1key trapped with padlock and dustcover
BLTHC-2E-CE-MCUOF: 2 keys lock, 2 keys trapped with padlock and dustcover, contact 1NO+1NC

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SCB

Solenoid controlled Boltlock

Characteristics:
- Electromechanical unlocking.
- Solenoid monitoring contacts 2NC and 2 NC bolt monitoring contacts (Failsafe). 100% duty cycle, LED, and override system.
  Solenoid voltage: 24V DC
- Bold diameter 8mm ref: SCB8, 10mm ref: SCBT10
  and 15 mm ref: SCB15
- 2 key control (2 key entries) ref: 2E
- Bolt travel: 15mm

Material:
Lock housing POM, bolt-lockcylinder stainless steel 316L, solenoid housing polyester paint finished zamak

Options:
- Supply 230volts ref: 230V
- Supply 110volts ref: 110V
- Supply 48 volts ac/dc ref: 48V
- Springloaded dustcap, ref: CE
- Other contact configurations: please do contact us

Operating principle:
Solenoid activation - Solenoid safety contacts open - LED on – provides authorization to release the key and extend the bolt, and with bolt extension the 2 boltoperared safety contacts are opened.

Technical Specification
Power supply: 24V AC/DC -10%/+25%
Solenoid monitoring contacts: 2NC 6A
240V
Bolt/key monitoring: 2NC AC15-10A
240V
LED: 2 x green
Wiring: 1 x 0.34² max 2 x 1.5²
Cable Gland Entries: 3 positions M20
Mounting: FOB
Fixing: M5 x 6
Temperature: Min 25°C. Max 60°C.
Protection: IP67 according to EN 60529

References Examples:
SCB15-2020-24V-CE: Solenoid controlled boltlock Ø 15mm, supply 24Volts ac/dc, 1Key, (free, bolt shot) and Dustcover.
SCB15-2E-2020-110V: Solenoid controlled Boltlock Ø 15mm, supply 110 Volts ac/dc, 2 Keys (free, bolt shot)
Key switch
Lock 16 Amp

**Characteristics:**
Key operated power isolation or circuit control switch lock
Standard sequence: key release when power «off»
- Panel mounting (BOB), at option choice wall-mounted (FOB)
- 1 to 5 locks (keys). Multiple lock ref: 2E, 3E, 4E, 5E

**Materials:** Stainless Steel 316

**Electrical features:**
Contacts: 2NO+2NC AC21 16A, AC23 4kW/230V, 7.5/400V, AC3 3kW/230V, 4 kW/ 400V

**Options:**
- 1 switch per lock ref: X (between number of locks and switch contacts ordering reference)
- Contacts: 3NO+1NC key free ref: 3O1F
- Contacts: 4NO key free ref: 4O
- Lock dustcover ref: CE
- In enclosure+IP55 polycarbonat ref: IP55 (Dust cover included)
- Padlocking device, 2x8,2 mm holes ref: HC2

**Operating principle:**
Turn the key to operate the switch, key released in 1 position only

**References examples:**
SWL 202F: Lock with 1 key, 2NO+2NC contacts
SWL 202F-IP55: Lock with 1 key, 2NO+2NC contacts, in IP55 enclosure
SWL 202F-CE: Lock with 1 key, 2NO+2NC contacts, lock dustcover
SWL2E-202F-CE: 2 keys lock, 2NO+2NC contacts, lock dustcovers
SWL4E-X-202F-CE: 4 keys lock, 4x 2NO+2NC contacts, lock dustcovers
SWL5E-4O-CE: 5 keys lock, 4NO contacts, lock dustcovers
Key switch
Lock 16 Amp with padlocking device

**Characteristics:**
Key operated power isolation or circuit control switch lock
Standard sequence: key release when power «off»
Padlock in Off position key free or in ON position Key trapped, for padlock and diameter 8 mm maximum
- Wall-mounted (FOB)
- 1 to 5 locks (keys). Multiple lock ref: 2E, 3E, 4E, 5E

**Materials:** Stainless Steel 316

**Electrical features:**
Contacts: 2NO+2NC AC21 16A, AC23 4kW/230V, 7.5/400V, AC3 3kW/230V, 4 kW/ 400V

**Options:**
- 1 switch per lock ref: X (between number of locks and switch contacts ordering reference)
- Contacts: 3NO+1NC key free ref: 3O1F
- Contacts: 4NO key free ref: 4O
- Lock dustcover ref: CE
- In enclosure-IP55 polycarbonate ref: IP55 (Dust cover included)
- Key free in On and Off position ref: SP

**Operating principle:**
Turn the key to operate the switch, release the key ( in 0 position only) and padlocked the switch.

**References examples:**
- SWL-2O2F-HC2: Lock with 1 key, 2NO-2NC contacts, padlocking device
- SWL-3O1F-CE-HC: Lock with 1 key, 3NO-1NC contacts- key free, dust cover, padlocking device
- SWL2E-2O2F-HC2: Lock with 2 keys, padlocking device
Key switch lock
25 to 100 Amp

**Characteristics:**
Key operated power isolation or control switch lock.
Standard sequence: key release when power «off»
Panel mounting (BOB), at option choice wall-mounted (FOB)
- 1 to 4 locks (keys). Multiple lock ref: 2E, 3E, 4E, 5E

**Materials:** Stainless Steel 316

**Electrical features (under 400 Volts):**
- 3NO 25 A contacts (AC23=7.5kW) ref: 25
- 3NO 32 A contacts (AC23=11kW) ref: 32
- 3NO 63 A contacts (AC23=22kW) ref: 63
- 3NO 100 A contacts (AC23=37kW) ref:100

**Options:**
- Contacts: 4NO key free ref: 40
- Contacts: 3N+1NC key free ref: 3O1F
- Lock dustcover ref: CE
- In enclosure (3locks maximum) ref: IP55 (dustcovers included)
- Interlocking from 2 keys (please contact us)

**Operating principle:**
Turn the key to operate the switch, key free in 1 position only

<table>
<thead>
<tr>
<th>Key position</th>
<th>1-2</th>
<th>3-4</th>
<th>5-6</th>
<th>7-8</th>
<th>9-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 key free</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 key pressed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>25</th>
<th>32</th>
<th>63</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>63</td>
<td>63</td>
<td>87</td>
<td>87</td>
</tr>
<tr>
<td>B 30/40</td>
<td>35/49</td>
<td>50/65</td>
<td>72/65</td>
<td>72/65</td>
</tr>
<tr>
<td>C</td>
<td>73</td>
<td>73</td>
<td>83</td>
<td>83</td>
</tr>
</tbody>
</table>

**References examples:**
SWL32-4O: Lock with 1 key, 32A switch, 4NO contacts- key free
SWL25-4O-IP55: Lock with 1 key, 25A switch, 4NO contacts- key free, in enclosure IP55
SWL65-2E-4O-CE: Lock with 2 keys, 63A switch, 4NO contacts—key free, lock dustcover
SWL100-3E-4O: Lock with 3 keys, 100A dustcover switch, 4NO contacts—key free

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**Characteristics:**
Power supply isolation controlled by 1 to 4 keys
EN 60204-1 compliant disconnector switch
Red handle/ yellow crown with Padlock/Tag out facility
- 25 to 315 Amps: see order references scheme.
- 400 Volts
- Four poles (3+N)

**Materials:** Stainless Steel 316 lock, polycarbonat case

**Options:**
- 6 poles ref: 6P
- Lock dustcover ref: CE
- Solenoid lock release 1 key ref: SCB
- Solenoid lock release 1 key with time delay from 0 to 999 seconds ref: TIM
- Solenoïd lock release 1 key with zero voltage (BEMF) ref: RVN

<table>
<thead>
<tr>
<th>Reference</th>
<th>Operational rated power at 400V Max</th>
<th>Uninterrupted Rated current In</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMA 32</td>
<td>15</td>
<td>32</td>
</tr>
<tr>
<td>IMA 63</td>
<td>37</td>
<td>63</td>
</tr>
<tr>
<td>IMA 100</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>IMA 160</td>
<td>55</td>
<td>160</td>
</tr>
<tr>
<td>IMA 250</td>
<td>90</td>
<td>250</td>
</tr>
<tr>
<td>IMA 400</td>
<td>130</td>
<td>400</td>
</tr>
</tbody>
</table>

Enclosure dimensions depend on the number of keys:
IMA63-3E: 250 x 375 x180 mm

**References examples:**
IMA 32-1E-CE: 15 kW switch, 1 key, lock dustcover
IMA 32-2E-CE: 15 kW switch, 2 keys, lock dustcovers
IMA 32-SCB-1E:15 kW switch, 24V solenoid unlocking 1key
IMA 32-TIM-1E: 15 kW switch, solenoid unlocking with time delay, power supply 24V 1key
IMA 32-RVN-1E-CE:15 kW switch, unlocking with BEMF relais, power supply 24V, 1key, lock dustcover
IMA 32- 4E-CE: 15 kW switch, 4 keys, lock dustcovers
IMA 250-2E-CE: 90 kW switch, 2 keys, lock dustcovers

Translation: IP65 Power Isolation Key Switch

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Solenoid controlled Switch lock

**Characteristics:**
Solenoid controlled single-key or multi-key switch interlock
Suitable for use in high-risk, category 4 applications
- 1 to 4 locks (keys), multi-key ref: 2E, 3E, 4E
- 2NO+2NC contacts + 2 solenoid position control contacts (positive breaking safety contacts)
- 100% Solenoid Duty Cycle, LED, Push Button, Override key

**Materials:** Stainless Steel 316

**Electrical features:**
- 24 V AC/DC 13 W power supply
- Contacts: AC2116A, AC23 4kW/230V, 7.5/400V, AC3 3kW/230V, 4kW/400V

**Options:**
- 48 V power supply ref: 48V
- 3NO+1NC contacts (free key) ref: 3O1F
- 4NO contacts (free key) ref: 4O
- Lock dustcover ref: CE
- In enclosure Polycarbonat IP55 ref: IP55
- In enclosure Metal IP55 ref: IP55M

**Operating principle:**
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 ACS series of Access interlocks

**References examples:**
SCL 2O2F-24V: 1 key electromechanical lock, 24 volts 2NO+2C contacts
SCL 4O-48V: 1 key electromechanical lock, 48 volts 4NO contacts -free key
SCL-2E-3O1F-24V-CE: 2 keys electromechanical lock, 24 volts 3NO+1NC contacts with lock dustcover
SCL-3E- 2O2F-24V: 3 keys electromechanical lock, 24 volts 2NO+2NC contacts
SCL-3E- 4O-24V-IP55: 3 keys electromechanical lock, 24 volts 4NO contacts in polycarbonat enclosure

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Solenoid controlled Switch lock
3 positions: on – stop request - off

**Characteristics:**
For automated environments: Key controlled Stop Request and key release through solenoid after run down cycle.
3 Position Keyoperated rotary switch lock: 2=« on », 1=« stop request », 0= « off » (key free).
- 1 to 4 locks (keys), multiple key ref: 2E, 3E, 4E
- 2NO+2NC contacts + 2 solenoid position control contacts
  (positive breaking safety contacts)
- 100% Solenoid Duty Cycle, LED, push button, override key.

**Materials:** Stainless Steel 316

**Electrical features:**
- 24 Volts AC/DC 13W power supply
- 2NO+2NC 3 positions AC21 16A, AC23 4kW/230V, 7.5/400V, AC3 3kW/230V, 4 kW/ 400V

**Options:**
- 48 Volts AC/DC power supply ref: 48V
- Lock dustcover ref: CE
- In enclosure Polycarbonat IP55 ref: IP55

**Operating Principle:**
Turning the key from position 2 to position 1 requests for machine stop. At full stop the LED illuminates and solenoid energisation unlocks the key to allow rotation and key release from position 1 to position 0 to prevent unauthorized restart.

**References examples:**
SCL3P-2O2F-48V: solenoid control lock 1 key, 48 volts 2NO+2NC contacts
SCL3P-2O2F-24V-IP55: solenoid control lock 1 key 24 volts 2NO+2NC contacts, in enclosure IP55
SCL3P-2E- 2O2F-24V: solenoid control 2 keys lock 24 volts 2NO+2NC contacts
SCL3P-3E-2O2F-24V-CE: solenoid control 3 keys lock 24 volts 2NO+2NC contacts lock dustcovers
**Solenoid controlled Switch lock**

3 positions: on – off – key free

**Characteristics:**
For systems with inertia: Remote controlled circuit locking and key release through solenoid.
3 Position rotary switch lock: 2=« on », 1=« stop » and time delay triggering, 0= « off » (key free)
- 1 to 4 locks (keys). Multiple key ref: 2E, 3E, 4E
- 2NO+2NC contacts + 2 solenoid position control contacts (positive breaking safety contacts)
- 100% Solenoid Duty Cycle, LED, push button, override key

**Materials:** Stainless Steel 316

**Electrical features:**
- 24 Volts AC/DC 13W power supply
- Contacts: 2NO+2NC 3 positions AC21 16A, AC23 4kW/230V, 7.5/ 400V, AC3 3kW/ 230V, 4 kW/ 400V

**Options:**
- 48 volts AC/DC power supply ref: 48V
- Lock dustcover ref: CE
- In enclosure Polycarbonate IP55 ref: IP55

**Operating Principle:**
Turning the key from position 2 to position 1 requests for machine stop, and triggers the time delay condition. Once the condition is fulfilled, solenoid energisation unlocks the key to allow rotation and key release from position 1 to position 0 to prevent unauthorized restart.

**References examples:**
SCL3PA-202F-48V-CE: solenoid controlled lock 1 key, 48 volts 2NO+2NC contacts, lock dustcover
SCL3PA-202F-24V-IP55: solenoid controlled lock 1 key, 24 volts 2NO+2NC contacts, in enclosure
SCL3PA-2E-202F-48V: solenoid controlled 2 keys lock, 48 volts 2NO+2NC contacts
SCL3PA-3E-202F-24V-CE: solenoid controlled 3 keys lock, 24 volts 2NO+2NC contacts, key dustcovers
Solenoid controlled Switch lock with padlocking device

**Characteristics:**
Solenoid controlled single-key or multi-key switch interlock with padlocking device 2 holes for shackle diameter 8 mm max ref:HC2
Padlockable in both Key trapped or key free position.
- 1 to 5 locks (keys), multi-key ref: 2E, 3E, 4E, 5E
- 2NO+2NC contacts + 2 solenoid position control contacts ref: 2O2F (positive breaking safety contacts)
- 100% Solenoid Duty Cycle, LED, Push Button, Override key

**Reference examples:**
SCL-2O2F-24V-CE-HC2: 1 key electromechanical lock, 24 volts 2NO+2C contacts with padlock device
SCL-2E40-24V-CE-HC2: 2 keys electromechanical lock, 24 volts 4NO contacts with lock dustcover and padlock device

**Materials:** Stainless Steel 316

**Electrical features:**
- 24 V AC/DC 13 W power supply ref: 24V
- Contacts: AC2116A, AC23 4kW/230V, 7.5/400V, AC3 3kW/230V, 4kW/400V

**Options:**
- 48 V power supply ref: 48V
- 3NO+1NC contacts (free key) ref: 3O1F - 4NO contacts (free key) ref: 4O
- Lock dustcover ref: CE
- In Metal enclosure-stainless steel IP55 ref: IP55M

**Operating principle:**
Energised solenoid enables key release after rundown time or operating cycle completion and prevents unauthorized restart. Key free or key trapped possibility to use the padlocking device.

**Reference examples:**
SCL-2O2F-24V-CE-HC2: 1 key electromechanical lock, 24 volts 2NO+2C contacts with padlock device
SCL-2E40-24V-CE-HC2: 2 keys electromechanical lock, 24 volts 4NO contacts with lock dustcover and padlock device

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Key switch solenoid lock
25 to 100 Amp

Characteristics:
Key operated power isolation control by solenoid switch lock.
Standard sequence: key release when power «off» and solenoid energize.
- Panel mounting (BOB)
- 1 to 4 locks (keys). Multiple lock ref: 2E, 3E, 4E, 5E

Materials: Stainless Steel 316

Electrical features:
- Power supply: 24 V AC/DC 13 W
- Control position solenoid contact: 2NC 3A
- 4NO 25 A contacts (AC23=7.5kW) ref: 25
- 4NO 32 A contacts (AC23=11kW) ref: 32
- 4NO 63 A contacts (AC23=22kW) ref: 63
- 4NO 100 A contacts (AC23=37kW) ref: 100

Options:
- Lock dustcover ref: CE
- In enclosure SS304L (3 keys maximum) ref: IP55M (dustcovers included)
- Interlocking from 2 keys (please contact us)

Principle:
Energised solenoid enables key release and operate power switch after rundown time or operating cycle completion and prevents unauthorized restart. This unit is generally used in conjunction with the ACS series of Access interlocks.

References examples:
SCL25-4O-24V: 1 key electromechanical lock with power switch 25Amp ,4 contacts NO power supply 24 Volts
SCL32-2E-4O-24V: 2 keys electromechanical lock with power switch 32 Amp, 4 contacts NO, power supply 24 Volts
SCL32-4O-24V-IP55M: 1 key electromechanical lock with power switch 32 Amp, 4 contact NO, power supply 24 Volts

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Solenoid Key Switch

**Characteristics:**
- Electromechanical unlocking.
- Solenoid monitoring contacts 2NC and 2 NC key free monitoring contacts (Failsafe), 100% duty cycle, LED, and override system.
- Solenoid voltage: 24V AC/DC
- 1 to 6 keys ref: 2E, 3E, 4E, 5E,
- FOB (wall) mounting

**Materials:**
Lock: Stainless Steel 316, solenoid housing polyester paint finished Zamak

**Options:**
- Supply 230volts AC ref: 230V
- Supply 110volts AC ref: 110V
- Springloaded dustcap, ref :CE
- Other contact configurations: please do contact us

**Operating Principle:**
When solenoid is energized (LED on) possibility to release up to 5 keys

**References examples:**
SKS-3E-2020-24V: 3 keys solenoid switch lock, 2NO+2NO contacts, power 24V AC/DC
SKS-2020-230V-CE: 1 keys solenoid switch lock, 2NO+2NO contacts, power 230V AC, key dust cover
Mini Solenoid lock

Characteristics:
- Solenoid lock for automated key management, as to provide for key release and tracking.
- A changeover switch provides information on key presence.
- Standard version panel mounting (BOB).

Materials: Stainless Steel 316

Electrical features:
- Contacts: 1NO+1NC 6A/250v,3A/24V
- 100% Solenoid Duty Cycle
- Power supply: 24 Volts DC +/-5%, 8W

Options:
- Lock dustcover ref: CE
- 12 Volts DC power supply ref: 12V
- In IP55 enclosure ref: IP55
- Multiple locks mounted onto plate or in cabinet (on request, please contact us)

Operating principle:
Key release by energized solenoid, a position monitoring switch indicates if the key is trapped or released

References examples:
RLSOF-24V: Solenoid lock with 1 key, 24VDC, 1NO+1NC changeover switch
RLSOF-24V-CE: Solenoid lock with 1 key, 24VDC, 1NO+1NC changeover switch, lock dustcover
RLSOF-24V-IP55: Solenoid lock with 1 key, 24VDC, 1NO+1NC changeover switch, in enclosure
RLSOF-12V: Solenoid lock with 1 key, 1NO+1NC changeover switch, 12V DC
RLSOF-12V-CE: Solenoid lock with 1 key, 1NO+1NC changeover switch, 12V DC, lock dustcover
TIMLOCK Electronic time delay Interlock

**Characteristics:**
Remote control circuit interlocking with key release at the end of a pre-determined time delay period. 3 positions key switch operation: «on», «off» & «start» time delay, key free.
- Adjustable time delay between 0 and 999 seconds
- 1 to 3 locks (keys). Multiple key ref: 2E, 3E

**Electrical features:**
- 24 Volts AC/DC power supply ref: 24V
- 240 Volts ref: 240V
- 2NO+2NC contacts AC21 16A, AC23 4kW/230V, 7.5/ 400V, AC3 3kW/ 230V, 4 kW/ 400V

**Materials:** Stainless Steel 316

**Options:**
- Lock dustcover ref: CE
- In enclosure Polycarbonat IP55: ref IP55

**Operating Principle:**
Turning the first key from position 2 to position 1 stops the system and starts the time delay period. After this time delay, key 1 can be removed, which releases the other keys. To restart, all keys must be inserted into the unit. Contacts 3-4 and 5-6 are safety circuit contacts, contacts 7-8 for signaling, as shown in the scheme below.

**References examples:**
TIMLOCK-24V: TIMLOCK with 1 lock (key), 24 Volts supply
TIMLOCK-2E-240V-CE: TIMLOCK with 2 locks (keys), 240 Volts supply, lock dustcovers

---

**Connection Terminal**

<table>
<thead>
<tr>
<th>Key position</th>
<th>3-4</th>
<th>5-6</th>
<th>7-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 (key free)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 (off)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 (on)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Contact Terminal**
Zero Speed Interlock

**Characteristics:**
Remote control circuit interlocking with key release at the end of motor rotation. 5 positions key switch operation: «on», «off» & «start» speed zero, key free.
- Adjustable time delay between 0 and 999 seconds
- 1 to 5 locks (keys). Multiple key ref: 2E, 3E, 4E, 5E

**Electrical features:**
- 24 Volts AC/DC power supply ref: 24V,
- 240 Volts ref: 240V
- 2NO+2NC contacts AC21 16A, AC23 4kW/230V, 7.5/400V, AC3 3kW/230V,4 kW/ 400V

**Materials:** Stainless Steel lock 316, enclosure 304

**Operating Principle:**
Turning the first key from position 2 to position 1 stops the system when the speed relay detect 0 speed, key 1 can be turn from 1 to 0 and removed, which releases the other keys. To restart, all keys must be inserted into the unit. Contacts 8-9 and 10-11 are safetycircuit contacts, contacts 7-8 12-13 for signaling, as shown in the scheme below.

**Options:**
- Lock dustcover ref: CE
- Key 2 positions on & off (key free): ref: 2P
- Key 3 positions On; stop request, Off(key free) ref: 3P
- Detection 2 motors with 2 relays: ref:2RVN

**References examples:**
SPEEDLOK-24V: SPEEDLOK with 1 lock (key), 24 Volts supply
SPEEDLOK-2E-240V-CE: SPEEDLOK with 2 locks (keys), 240 Volts supply, lock dustcovers
Key Exchange unit

**Characteristics:**
- Allows exchange of a number of keys against another
  - 2 to 6 keys ref: **2E, 3E, 4E, 5E, 6E**
  - FOB (wall) mounting (BOB mounting possible at your choice)

**Materials:** Stainless Steel 316

**Options:**
- Electrical switch contacts: AC-15:400V/4A, 1NO+1NC ref: **MCUOF**
  - 2NO (free key) ref: **MCU2O**
  - 2NC (free key) ref: **MCU2F**
- Lock dustcover ref: **CE**

*Note: the switch is always operated by the 1st key (operating key). For more than 6 keys exchange see product ref: **TCL***

**Operating Principle:**
Insertion of one or more operating keys releases one or more secondary keys. Operating key(s) are trapped when the secondary keys are released and reverse.

### References examples:
- **EXL-3E-1/2:** 3 keys exchange unit, 1 key releases 2 trapped keys
- **EXL-4E-1/3-CE:** 4 keys exchange unit, 1 key releases 3 trapped keys, lock dustcovers
- **EXL-6E-2/4-MCUOF-CE:** 6 keys exchange, 2 keys release 4 trapped keys, 1NO+1NC contacts operated by the 2 operating keys, lock dustcovers
- **EXL-5E-1/4-MCU2O:** 5 keys exchange unit, 1 key releases 4 trapped keys, 2NO contacts when the operating key is free

---

**Table:**

<table>
<thead>
<tr>
<th>Nombre total de clés</th>
<th>Type d'échange</th>
<th>Nombre de clé mère</th>
<th>Nombre de clé fille</th>
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<tr>
<td>2E 129</td>
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<tr>
<td>3E 184</td>
<td>1/2</td>
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<tr>
<td>4E 238</td>
<td>1/3</td>
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<td>4E 292</td>
<td>3/1</td>
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<td>5E 346</td>
<td>1/4</td>
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<td>2</td>
</tr>
<tr>
<td>5E 392</td>
<td>5/1</td>
<td>5</td>
<td>1</td>
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</tbody>
</table>

<table>
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<tr>
<th>Nombre total de clés</th>
<th>Type d'échange</th>
<th>Nombre de clé mère</th>
<th>Nombre de clé fille</th>
</tr>
</thead>
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<td>6E 624</td>
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<td>6E 680</td>
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<td>6E 736</td>
<td>5/1</td>
<td>5</td>
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</tbody>
</table>

**Diagram:**

Ref: EXL3E-1/2-MCU2O

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Key Exchange panel

**Characteristics:**
- Allows exchange of 1 or a number of keys against another
- From 5 to maximum 36 keys, ref: 5E to 42E
- Rows include maximum 6 keys.
- Electrical contacts per lock (key) possible.
- Ease of use (no predefined key release sequence).
- Personalized identification marking

**Materials:** Stainless Steel 316

**Options:**
- Contact: 1NO-1NC, AC21 10A on lock ref: OF
  For contact on particular lock, please contact us
- Key dustcover ref: CE
- Padlock guarding rail to lock/trap the first set of keys:
  10 locks ref: H 10
  20 locks ref: H 20
  30 locks ref: H 30
  40 locks ref: H 40
  For the guarding rail operating principle see product ref BHC

### Panel type with number of keys and rows

<table>
<thead>
<tr>
<th>Panel type with number of keys and rows</th>
<th>Maximum Number of keys <code>primary</code></th>
<th>Maximum number of keys <code>secondary</code></th>
<th>Reference With max keys per row</th>
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<tr>
<td>A-6-2</td>
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<td>TCL12E-6/6</td>
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<td>TCL24E-6/18</td>
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<td>TCL24E-12/12</td>
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<td></td>
<td>12</td>
<td>30</td>
<td>TCL42E-12/30</td>
</tr>
</tbody>
</table>

**References examples:**
- TCL 12E-2/10: 12 keys panel with 2 free, 10 trapped
- TCL 8E-1/4: 8 keys panel with 1 free, 4 trapped
- TCL 12E-2/10-CE: 12 keys panel with 2 free, 10 trapped, with lock dustcovers
- TCL 12E-2/10-CE-H10: 12 keys panel with 2 free, 10 trapped, with lock dustcovers, 10 padlocks rail traps the 2 operating keys (preventing release of access keys to the guarded area)

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**Operating Principle:**
Key free = access door closed and locked. Inserting and turning the key frees the latch. The key remains trapped as long as the door is open.

**Characteristics:**
Access control Interlock for any kind of door.
85 mm centre-distance 3 handing positions locking latch.
- Latch with locking claws
- Latch handle with incorporated ingress protection

**Materials:** Stainless Steel 316

**Options:**
- Lock dustcover ref: CE
- Latch hole dustcover ref: CEL
- 20 cm chain latch ref: C0.2

**Electrical contacts:**
- 1NO+1NC ref: MCUOF
- 2NO (open door) ref: MCU2O
- 2NC (open door) ref: MCU2F
- Padlocking device, 2 x8,2 mm holes ref: HC
- Enhanced protection (concrete) ref: PR

**References examples:**
ACS: Access lock, 85 mm latch
ACS-CE: Access lock, lock dustcover, 85mm latch
ACS-C0.2: Access lock, 20 cm chain latch
ACS-CE-C0.2: Access lock, lock dustcover, 20 cm chain latch
ACS-CE-C0.2-MCU20: Access lock, lock dustcover, chain latch 20 cm, 2NO contact
2 Keys Access Interlock

Characteristics:
2 Keys access control Interlock for all kinds of doors.
85 mm centre distance, 3 handing positions locking latch
- 2 Operation Keys ref:T1
- 1 Operation Key and 1 Safety Key (to avoid locking in) ref: T2.

Materials: Stainless Steel 316

Options:
- Lock dustcover ref: CE
- Latch hole dustcover ref: CEL
- 20 cm chain latch ref: C0.2
- Electrical contact:
  1NO+1NC ref: MCUOF
  2NO (open door) ref: MCU2O
  2NC (closed door) ref: MCU2F
- Padocking device, 2x8.2 mm holes ref: HC

Operating Principle:
T1: 2 operating keys. Inserting and rotating both operation keys frees the latch. Keys remain trapped as long as door stays open.
T2: 1 operating key and 1 safety key, inserting the operation key and removing safety key unlocks the latch

References examples:
ACS-2E-T1-CE: Access lock, 2 operation keys, lock dustcovers, 85 mm latch
ACS-2E-T2-C0.2: Access lock, 1 operation key, 1 safety key, 20 cm chain latch
ACS-2E-T2-CE: Access lock, 1 operation key, 1 safety key, 85 mm latch, lock dustcovers
ACS-2E-T2-CE-C0.2: Access lock, 1 operation key, 1 safety key, lock dustcovers, 20 cm chain latch
3 Keys Access Interlock

**Characteristics:**
3 keys access control Interlock for all kind of doors.
85 mm centre-distance, 3 handing positions locking latch.
3 operation keys ref:T1
2 operation keys and one Safety key (to avoid locking in) ref:T2

**Materials:** Stainless Steel 316

**Options:**
- Lock dustcover ref: CE
- Latch hole dustcover ref: CEL
- 20 cm chain latch ref: C0.2

**Electrical contacts:**
- NO+NC ref: MCUOF
- 2NO (open door) ref: MCU2O
- 2NC (closed door) ref: MCU2F
- Padlocking device, 2x 8,2 mm holes ref: HC

**Operating Principle:**
T1: Inserting and rotating the 3 operation keys unlocks the latch.
Keys remain trapped as long as door stays open.
T2: Inserting and rotating 2 operation keys releases the safety key.
Removal of the safety key from the lock unlocks the latch to open access.

**References examples:**
ACS-3E-T1-CE-C0.2: 3 operating keys, lock dustcovers, 20 cm chain latch
ACS-3E-T2: 2 operating keys, 1 safety key, 85 mm latch
ACS-3E-T2-CE-MCUOF: 2 operating keys, 1 safety key, lock dustcovers, 85 mm latch with electric contacts 1NO+1NC
ACS-3E-T2-C0.2: 2 operating keys, 1 safety key, 20 cm chain latch
Access Interlocks with padlock device

Characteristics:
Access control Interlock 1 to 3 keys for any kind of door.
85 mm centre-distance 3 handing positions locking latch.
- 2 padlocks ref: HC - 8 padlocks ref: HC8
- 1 key ref: ACS, 2 Keys ref: 2E, 3 keys ref: 3E
- 2 Operation Keys ref: T1
- 1 Operation Key and 1 Safety Key (to avoid locking in) ref: T2
- Latch handle with incorporated ingress protection

Materials: Stainless Steel 316

Options:
- Lock dustcover ref: CE
- Latch hole dustcover ref: CEL
- 20 cm chain latch ref: C0.2

Electrical contacts:
- 1NO+1NC ref: MCUOF
- 2NO (open door) ref: MCU2O
- 2NC (open door) ref: MCU2F
- Enhanced protection (concrete) ref: PR

Operating Principle:
Key free = access door closed and locked. Inserting and turning the key frees the latch, push the padlock bar and insert padlock in holes. The door is consigned open and the key remains trapped as long as the door is open and padlocks are present.

References examples:
ACS-HC: Access lock, 2 padlocks capacity, with 85 mm latch
ACS2E-T1-HC8-CE: 2 operation Keys access lock, 8 padlocks capacity, lock dustcover, 85 mm latch
Safety gate switch
With latch

**Characteristics:**
Access safety switch locking for any kind of door.
Most suitable for doors with risk of misalignment and/or harsh operating conditions.
Easy installation, no safety switch tuning required.

**Materials:** Stainless Steel 316

**Electrical features:**
AC-15:400V/4A- Positive breaking safety contacts
2NO contacts- free latch
Ingress Protection: IP67

**Options:**
- 2NC+1NO contacts (locked latch) ref: 1O2F
- 1NO+1NC contacts (free latch) ref: OF
- 2NO contacts (free latch) ref: 2NO
- ATEX 1NO+1NC contacts with 3 meters of cable ref: ATEXOF3
- 20 cm chain latch ref: C0.2

**Operating Principle:**
With free latch (open access) 2NO contacts are open.
Trapped latch (denied access) 2NO contacts are closed for machine start (with safety switch contacts 2NC+1NO latch trapped when 2 closed /1 open).
The latch is very reliable and requires conscious action for opening and closing

**References examples:**
ALMCU-2NO: Switch with 2NO contacts free latch
ALMCU-2NC+1NO: Switch with 2 contacts closed and 1 contact open- trapped latch
ALMCU-1NO+1NC: Switch with 1NO+1NC contact -free latch
ALMCU-2NO-C0.2: Switch with 2NO contact- free latch, 20cm chain latch
Safety Gate switch interlock
For safe access control

**Characteristics:**
Safety key release initiates machine stop and enables safe door opening.
Prevents machine operation with open door,
Prevents personnel being accidently locked inside a guarded area.

**Materials:** Stainless Steel 316

**Options:**
- Key dustcover ref: CE
- 20 cm chain latch ref: C0.2

**Electrical contacts:**
- 1NO+2NC ref: MCU1O2F
- 1NO+1NC ref: MCUOF
- 2NO (open door) ref: MCU2O
- 2NC (closed door) ref: MCU2F
- ATEX3 contacts ref: ATEX3 (see for detail ref: MCU)
- 1 Operation Key and 1 Safety Key ref: T2
- 2 Safety Keys ref: 2E

**Operating Principle:**
Removal of the Safety Key operates the safety switch contacts to safe machine stop mode and enables door opening. Safety key can be taken into the guarded area to prevent accidental restart, and/or initiate safe programming inside the guarded area by operating safety switch interlock ref: EXLT1 MCU

**References examples:**
ACST0-CE-C0.2: with lock dustcover and 20 cm chain latch
ACST0-MCU20-CE: with lock dustcover, 85 mm latch and 2NO contacts
ACST0-CE: Unit without switch, with lock dustcover and 85 mm latch
ACST0-C0.2: Unit without switch, and 20 cm chain latch
For combined safe programming inside the guarded area, see safety switch interlock ref: EXLT1 MCU
Solenoid controlled Access lock

**Characteristics:**
- Solenoid locking, 2 solenoid and 2 latch position control contacts (positive break), 100% Solenoid Duty Cycle, with LEDs, and override key, 85 mm centre-distance latch.
- Designed for heavy duty interlock application.
- With coded locking latch option ref: LM

**Materials:** Stainless Steel 316

**Electrical features:**
- Solenoid Voltage: 24 V DC/AC 13W
- Contacts: 2NO+2NC AC21 16A, AC23 4kW/230V, 7.5/400V, AC3 3kW/ 230V, 4 kW/ 400V

**Options:**
- 230 Volts power supply ref: 230V
- 20 cm chain latch ref: C0.2
- Latch lock dustcover ref: CEL
- Key Lock dustcover ref: CE
- Padlocking device, 2 x 8,2 mm holes ref: HC
- Padlocking device, 8 x 8,2 mm holes ref: HC8

**Operating Principle:**
- Solenoid energization releases the locking latch and enables access door opening.
- Provides suitability for use in SIL 3 EN/IEC 62061, Category 4 and PLe EN/ISO 13849-1 applications.
- Protection: IP67 according to EN 60529

**References examples:**
ASCL-2020-24V-CE: lock with solenoid controlled latch 24 V 2NC+2NC contacts with key dustcover
ASCL-2020-24V-LM: lock with solenoid controlled latch 24V 2NC+2NC contacts and coded locking latch
ASCL-2020-24V-E1-CE: lock with solenoid controlled latch 24 V 2NC+2NC contacts, safety key and dustcovers.
ASCL- 2020-24V-C0.2: lock with solenoid contr. latch 24 V 2NC+2NC contacts and 20 cm chain latch
Solenoid controlled
Access lock with
safety key

Characteristics:
- Solenoid locking, 2 solenoid and 2 latch position control contacts (positive break), 100% Solenoid Duty Cycle, with LED, and override key, 85 mm centre-distance latch.
- Designed for heavy duty interlock application.
- With coded locking latch option ref: LM
- Available with up to 3 Safety Keys ref: 2E, 3E

Materials: Stainless Steel 316

Electrical features:
- Solenoid Voltage: 24 V DC/AC 13W
- Contacts: 2NC+2NC 6A /240V,

Options:
- 230 Volts power supply ref: 230V
- 20 cm chain latch ref: C0.2
- Latch lock dustcover ref: CEL
- key Lock dustcover ref: CE
- Padlocking device, 2 x8,2 mm holes ref: HC
- Padlocking device, 8 x8,2 mm holes ref: HC8

Operating Principle:
- Solenoid energization releases the safety key and enables to release the latch and access door opening.
- Coded locking latch ref: LM Provides suitability for use in SIL 3 EN/IEC 62061 Category 4 and Ple EN/ISO 13849-1 applications.
Protection: IP67 according to EN 60529

References examples:
ASCL1E-2020-24V-CE: lock with solenoid controlled safety key & latch 24 V 2NC+2NC contacts with key dustcover
ASCL1E-2020-24V-LM: lock with solenoid controlled safety key & latch 24 V 2NO+2NC contacts and coded locking latch
ASCL1E- 2020-24V-C0.2: lock with solenoid contr. latch 24 V 2NO+2NC contacts and 20 cm chain latch
Padlock devices and Latches for Access Locks

Padlock device for 2 & 8 Padlocks ref: HC / HC8

Latch 135 mm bended-for flush mounting ref: LQ135
Latch 180 mm bended-for flush mounting ref: LQ180

Chain Latch 20cm/30cm... ref: C0.2 / C0.3
Shackles 5 mm – welded- full stainless steel

Anti Vibration Latch, 85mm centre distance ref: ATV

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EXLT1 MCU

Key operated Safety switch

**Characteristics:**
- Key operated failsafe assembled overtravel limit switch.
- Suitable for access request-, Programming- and Machine stop control in combination with ASCL and ACS units.
- Front of board mounting.
- Available up to 6 locks. Multiple lock ref: 2E, 3E, 4E, 5E, 6E

**Materials:** Stainless Steel 316
Ingress Protection: IP67

**Electrical features:**
- AC15: 4A/400V- Positive breaking safety contacts
- 2NC+1NO ref: MCU2FO
- 1NO-1NC ref: MCUOF
- 2NO (free key) ref: MCU2O
- 2NC (free key) ref: MCU2F

**Options:**
- Key dustcover ref: CE
- BOB (Panel Mounting) ref: INV (see for detail ref: MCU)
- ATEX3 contacts ref: ATEX3 (see for detail ref: MCU)

**Operating principle:**
Modular lock with safety switch, designed as FOB (wall) mounted rail, release of one or more keys operates the switch and vice versa.

**References examples:**
EXLT1-MCUOF: Lock 1 key with contacts 1NO+1NC
EXLT1-2E-MCUOF: Lock 2 keys with contacts 1NO+1NC
EXLT1-3E-MCU2O-CE: Lock 3 keys with contacts 2NO free keys, lock dustcovers
EXLT1-MCU2OATEX3: Lock 1 key with contacts 2NO free key, explosion proof contacts with 3 meters of cable.

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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

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MCU
Safety switch
Contact module

Characteristics:
- Electrical safety switch module, fits without modification to any of our products like BLT Boltlock, ACS Access locks, or EXL Key exchangers.
- Fitted with protection cover and sealed with a safety screw to prevent unauthorized switch access. Suitable for safety applications.

Materials: Stainless Steel 316

Electrical features:
AC-15:400V/4A- Positive breaking safety contacts
- 2NC+1NO ref: MCU2FO
- 2 NO contacts ref: MCU20
- 2NC contact ref: MCU2F
- 1NO +1NC contacts ref: MCUOF
- Ingress protection: IP 67 ref: IP67

Options:
- Back of Board version (Panel Mounting) ref: INV
- ATEX 1NO+1NC contact with 3 meters of cable (for other type please contact us) ref: ATEXOF3

Operating principle:
The module MCU can be fitted without any technical modification of the host lock. It monitors the key or latch status and/or provides for safety circuit control functionality.

34 For further informations: http://www.secums-interlocks.com - Tel: 00 33 (0)1 43 08 65 31 Fax: 00 33 (0)1 43 08 97 20
**Operating principle:**
The key is trapped in the lock by any padlock which blocks key release for access lock operation (i.e. access lock with safety key ACS2E-T2) as well as system restart.

**References examples:**
- BHC5C: 1 key lock with 5 padlocks rail
- BHC12C: 1 key lock 12 padlocks rail
- BHC12C-2E-CE: 2 keys lock with 12 padlocks rail, lock dustcovers
- BHC20C: 1 key lock with 20 padlocks rail
- BHC12C-2E: 2 keys lock with 12 padlocks rail
- BHC12C-2E-MCUOF: 2 keys lock with 12 padlocks rail and 1NO+1NC contacts
VPN VPH

Pneumatic & Hydraulic Valve lock

**Characteristics:**
- Interlock for pneumatic or hydraulic valves, with key free in locked closed position.
- Pneumatic valve DN10 to DN 25 with female connexion
  Direct key operated
- Hydraulic valve DN15 to DN50 with female connexion
  Lever operated and interlocked with boltlock

**Materials:**
- Lock body: Stainless Steel 316
- Pneumatic valve: brass, chrome finished
- Hydraulic valve: steel chrome finished

**Options:**
- Lock dustcover ref: CE
- 3 way valve (on request)

**Specific options for hydraulic valve**
- Switch NO+NC ref: MCUOF
- Locked 2 positions with 2 locks ref: LOC
- Lock closed 2 keys free ref: 2E

<table>
<thead>
<tr>
<th>Reference</th>
<th>Valve type &amp; Diameter</th>
<th>Pressure (bars)</th>
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<tbody>
<tr>
<td>VPN10</td>
<td>Pneumatic DN10</td>
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<tr>
<td>VPN15</td>
<td>Pneumatic DN15</td>
<td>30</td>
</tr>
<tr>
<td>VPN20</td>
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<td>VPN25</td>
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<td>VPH15</td>
<td>Hydraulic DN15</td>
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<td>VPH25</td>
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</tr>
<tr>
<td>VPH40</td>
<td>Hydraulic DN40</td>
<td>400</td>
</tr>
</tbody>
</table>

**References examples:**
- VPH-P10-CE: pneumatic valve DN10 locked closed-key free with dustcover
- VPH-H25-CE: hydraulic valve DN25 locked closed-key free with dustcover
- VPH2E-H15-CE: hydraulic valve DN15 locked closed 2 keys free with dustcover
- VPH-LOC-H40-MCUOF-CE: hydraulic valve DN40 locked open and locked closed with contact NO+NC
**Interlock**

For lever operated valves

**Characteristics:**
- Lock 90L (for ¼ turn valves) such as ball or butterfly valve.
- Includes valve fitting kit, can be mounted without drilling or valve modification.
- Quick to install or to dismantle
- Locking force 500 daN
- 650°C fire resistance
- Keys and dustcover with incorporated lock ingress protection
- SécuMS patented easy lock coding and marking

**Materials:** Stainless Steel 316

**Options:**
- Integrated position monitoring switch
  - ATEX 1NC position contact when valve open ref: BFO
  - ATEX 1NC position contact when valve closed ref: BFC
- Key cabinets/Key management systems

**Operating principle:**
- 90L–LO: Single locking, key free when the valve is locked open (right side key).
- 90L–LC: Single locking, key free when the valve is locked closed (left side key). en the valve is locked closed (left key), other key free when the valve is locked open (right key). Only one key can be free at the time.
- 90L–LOC: Double locking, one key free

Design of adaptation kit tailored to the to be interlocked valve type and size

**References examples:**
90L-LOC: Double lock with lever, locking the valve in open and/or closed position
90L-LO: Single Lock with lever, locking the valve in open position
90L-LC: Single Lock with lever, locking the valve in closed position

**DIMENSIONS**

<table>
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<tr>
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<tr>
<td>500</td>
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</table>
Interlock for handwheel Operated valves

**Characteristics:**
- Lock MTL (for handwheel operated valves) such as gate, globe or gearbox operated valves.
- Includes valve fitting kit, and can be mounted without drilling or valve modification.
- Quick to install or to dismantle
- Locking force 500 daN
- 650°C fire resistance
- Keys and dustcovers with incorporated lock ingress protection

**Materials:** Stainless Steel 316

**Options:**
- Integrated position monitoring switch
- ATEX 1NC position contact when valve open ref: BFO
- ATEX 1NC position contact when valve closed ref: BFC
- Key cabinets/Key managementsystems: see ref TCL

For more detail and the complete range of locks for valves, please refer to our SECULOK IVL catalogue

**Operating Principle:**
- MTL–LO: Single locking, key free when the valve is locked open (right side key).
- MTL–LC: Single locking, key free when the valve is locked closed (left side key).
- MTL–LOC: Double locking, one key free when the valve is locked closed (left key), other key free when the valve is locked open (right key). Only one key can be free at the time.

**References examples:**
MTL-LOC: Double lock with handwheel, locking the valve in open and/or closed position
MTL-LO: Single Lock with handwheel, locking the valve in open position
MTL-LC: Single Lock with handwheel, locking the valve in closed position
CVL

Lockout for Handwheel valves

**Characteristics:**
Thermoplastic body XENOY, dielectric, light, robust and chemical resistant.
Unique rotary design for quick installation.
- 6 sizes, for up to 35.2 cm diameter handwheels
- 3 padlocks holes 8/9.5 mm
- Removable center cap for rising stem valves
- Temperature -46 °C to 177 °C
- Quick to install or to dismantle

**Options:**
- Padlocks
- Hasp with 6 padlocks ref: 416

**Operating Principle:**
Place the valve in proper position, place the to the valve handwheel size adapted CVL cover, and lock with safety padlocks at choice.

**References examples:**
CVL-480: Lockout for handwheel valve between 2.7 and 8.1 cm
CVL-483: Lockout for handwheel valve between 16.2 and 27 cm

Handwheel $\geq$ 2.7 cm up to 8.1 cm 480
Handwheel $\geq$ 5.4 cm up to 13.5 cm 481
Handwheel $\geq$ 10.8 cm up to 17.6 cm 482
Handwheel $\geq$ 16.2 cm up to 27 cm 483
Handwheel $\geq$ 21.6 cm up to 35.2 cm 484
Handwheel set of each size (5) $\geq$ 5.4 up to 35.2 cm 485
Distributors

TOTAL LOCKOUT (SAFETY) LTD
Unit 10 Warner Drive, Springwood Industrial Estate
Braintree, Essex, CM7 2YW
UNITED KINGDOM
Tel: +44 (0)1376 325506
Fax: +44 (0)1376 347484
www.totallockout.com
sales@totallockout.com

HEXAGON DISTRIBUTORS SDN BHD
Lot 1903A, Jalan KPB 7
Kawasan Perindustrian Kg. Baru Balakong
43300 Seri Kembsangan
SELANGOR, MALAYSIA
Tel: +60-3-8961 8066
Fax: +60-3-8962 1011
www.valvetec.com
skcho@mjvtec.co.krc

MJV TEC- Myoung Jin Valvetec CO., Ltd
6F, Sungwoo Building
15-12 Yoido – Dong
Youngdeungpo - Gu
SEOUL, KOREA
Tel: +82 8 785 2327
Fax: +82 8 785 2329
www.valvetec.com
skcho@mjvtec.co.krc

AL-ZAHEM INT’L GROUP TRADG.
Oil field & Industrial services,
P.O. Box: 26212, Safat -13123, Kuwait
ambialex@hotmail.com

Head office

Sécurité Machines Systèmes
SECUMS Interlocks SARL
9, rue Eugène Sue
93360 Neuilly Plaisance
FRANCE
Tel : +33 1 43 08 65 31
Fax: +33 1 43 08 97 20
www.secums-interlocks.com
info@secums.com

Sales Office Europe- North

Secums Interlocks BV
Pascalweg 25
3225 LE Hellevoetsluis
NETHERLANDS
Tel : 31 (0) 181 809970
Fax: 31 (0) 181 809975
www.secums-interlocks.com
info@secums.com