RAILOK

Applications for railway and signaling



Railway-And Rolling Stock Interlocks

- Type « S » Interlocks
- Railroad junction interlocks
- Electromechanical locks and key release units
- -Triangle key switches
- Padlocking devices for controlswitch isolation
- Padlocks





→ Railway guarding for all applications
 → Reliable and innovative solutions
 → Adaptable and modular range







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Please consult our SECULOK catalogue for the full range of interlocks for guarding solutions for all industries

Company Profile



SECUMS Interlocks

Created in 2004 and based in Neuilly Plaisance in the Paris area, SECUMS Interlocks designs and manufactures the complete range of SECULOK, RONIS and RAILOK products. SECUMS 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. Our market leading recognition is the result of our continuous focus on the design of innovative on demand products.

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 safeguarding applications from machine guarding, power generation and -distribution system interlocking up to valve interlocking in all industries.

SECUMS offers one of the widest ranges of interlocks to safeguard control and signalling equipment for Railway and Rolling Stock. This includes solutions for rail-maintenance centres and -depots, HV and DC traction power substation, safety control systems for Railway Signalling equipment and track junctions, HV equipment on rolling stock and many other applications.

Recently developed products included in this catalogue as an example of our innovative design and engineering capabilities are:

-SWL-VLH: Triangle & EMKA key Switch Lock range, spring return, front of board version.

-BPC: Padlockable Pushbutton, with or without lockable position indicator and safety switch.

RAILOK range advantages

RAILOK Products are specially designed for railway applications. The products have a proven record of reliability and meet with the expectations of practical any user in the field.

The range includes many specific products for our customers, tailored to the specific requirements of our clients.

If your application is not available in this catalogue, please consult our SECULOK catalogue for the full range of interlocks for guarding solutions for all industries

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.

Type « S » Locks and Keys Applications



Keys and locks of the "S" series are intended for railway applications outside France. For national French railway applications, these products are sold by the SNCF.

- --Locks for signaling
- Locks for catenary guarding
- Bronze locks type S1P1E, S1P2E, S1P3E, In conformity with the recent SNCF specifications
- Approved and certified per AQF2 Foundries certification (supplier quality assurance) for SNCF.
- Coding Type SNCF



Disconnector locks



Railblock locks



Lock for Lever operated junction



Disconnector locks



Locks for Railblocks

Key type « S »





General characteristics:

- Coding by cut outs, recesses and drilling

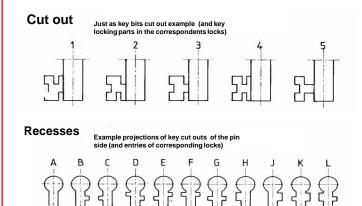
Material: Bronze

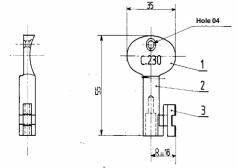
Réf: CQ-S

CQ - S

Principle:

- -The keys are designated by three codes:
- The first shows the profile of the cut outs, it uses the numbers 1 to 5.
- The second shows the profile recesses, it uses the letters A to L (except I).
- The third indicates the type of drilling, it uses the numbers 1 to 8
- Those codes are arranged side by side, from left to right in the order as listed below





Drilling

illing	Drilling e correspo	Prilling example of the pin sides (and orresponding pin positions in the locks)					***	
1	2	З	4	5	6	7	8	

Reference examples:

2 D 5 is a key profile having cut out 2, the recess profile D, and the drilling type 5 The key code is stamped on the edge of the keycylinder. Different combinations of codes allow up to 440 different keys.

S1P3E

S1P1E Boltlocks type « S » S1P2E with 1 up to 3 Key entries





General characteristics:

- Number of keys: 1 up to 3
- Bolt diameter 15 mm
- 12 mm stroke
- Fastening with 3 holes with a diameter of 5 mm (rivets recommended)
- Plate with Marking screwed to the left of the keyentry
- Plate with designation riveted on the fields located above the keyentry.

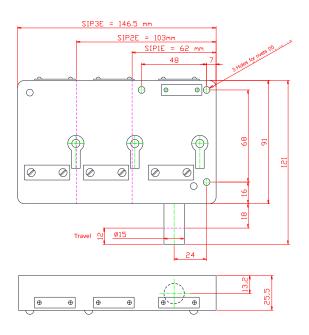
Material : Bronze

Principe:

Any key is provided with a marking identifying the "Transportation" function thereof. This marking, generally comprising a maximum of 5 letters or numbers is etched at the flat side of the keycylider by the supplier workshop store.

Warning:

It is forbidden to open a lock "s" boltlock, even though it has given rise to an incident.



Reference examples:

S1P1E: key free and bolt shot, key trapped and bolt retracted S1P2E: 2 free keys free and bolt shot, 2 keys trapped and bolt retracted S1P2E conjugate: 1 key free bolts shot, 1 key trapped and bolt retracted S1P3E 3 keys free and bolts shot, 3 keys trapped and bolt retracted S1P3E conjugate: 1 key free and bolt shot, 1 captive key and bolt retracted S1P3E conjugate: 2 keys free and bolt shot, two keys captive bolt retracted

S1P1E 2O1F

S- Lock with limmit switch Front/Rear







General characteristics:

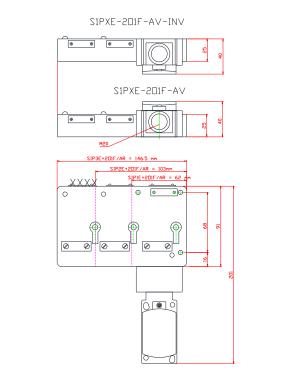
- Lock with up to 3 key entries
- Contacts 2NO1NC double insulated/ positive opening/ 1 entry gland M20
- Temperature: -25 to +70 ° C
- Option with contact: -4NO on request
- Contact in reverse applies for mounting on the front face of the lock $\ensuremath{\mathsf{Ref: INV}}$
- Contact at front bolt position ref: AV
- Contact at rear bolt position ref: AR

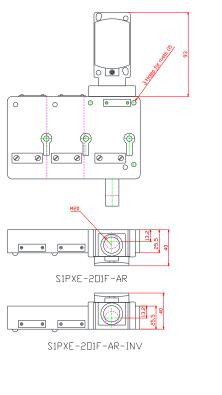
Electrical caracteristics: Ith:10A

Material :

- Switch enclosure plastic IP65 réf: 2NO1NC
- Switch enclosure metal IP 66 réf : 2NO1NVM

Réf : S1P1E-2O2F-AR



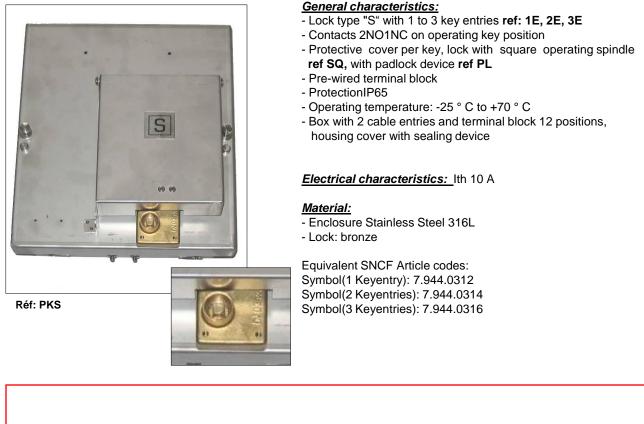


Reference examples:

S1P1E-201F-AV: Lock 1 keyentry with 2NO1NC -switch on front S1P1E-201F-AR: lock 1 keyentry 2NO1NC- switch on rear. S1P2E-201F-AV: lock with 2 key entries 2NO1NC switch on front S1P2E-201F-AR-INV: lock with 2 key entries 2NO1NC switch on the rear, inverted position S-Key operated switchunit

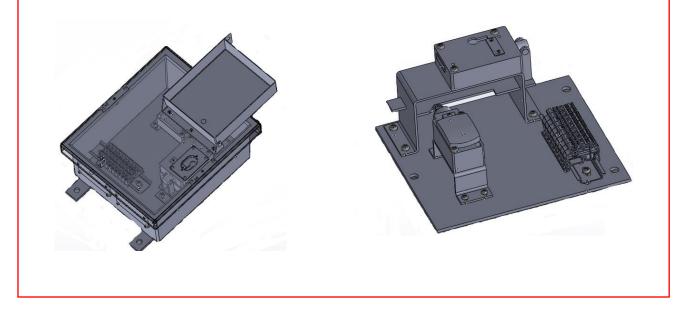
PKS





Switch, enclosure and internals

Internal plate



SCL-S

Solenoid controlled Key switch lock for keys "S" & "LOCO"





Characteristics:

- 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
- Push Button with low energy cosumption
- Mounting FOB (Front Of Board)
- Powersupply: dual voltage 24/48V
- CEM certified
- For key « S » ref: S
- For key « LOCO » ref: LO
- For key SECULOK (nothing to indicate)

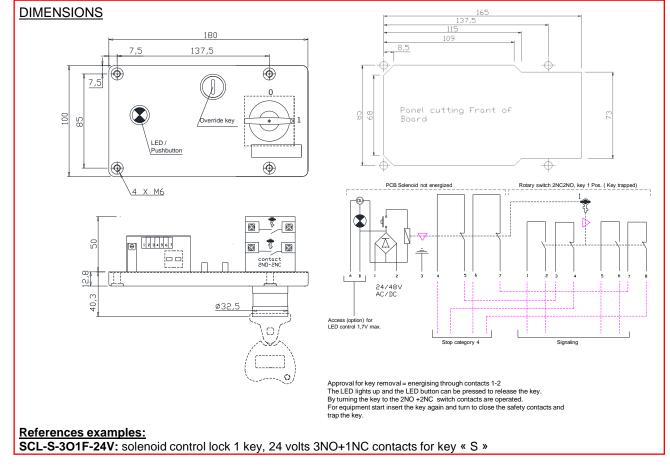
Material: Stainless steel 316L

Electrical features:

- Contacts: 202F 4KW 400V, 204F 4KW400V

Options :

- Contact 40, 404F or 301F
- 110V AC/DC power supply ref: 110VAC ou 110VDC
- 230Volt AC/DC power supply ref: 230 VAC ou 230VDC
- Lock dustcover ref: CE for key LOCO and SECULOK





Key release Units





Type Signalisation

General characteristics:

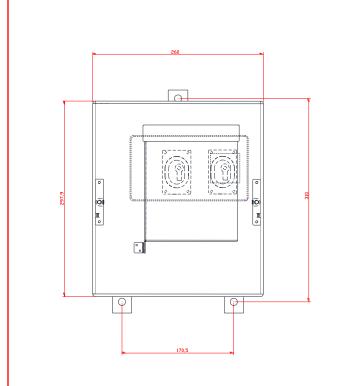
- Locking with 1 to 2 key entries
- Key release by voltage presence
- Contacts 2O-2F + 2NC to control electromechanical relocking.
- Supply voltage 24 and 48 V AC and DC
- Pre-wired terminal block, housing cover with device sealing
- Duty cycle 100%
- CEM Compatable

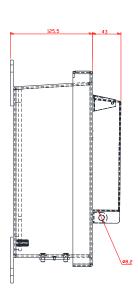
Options :

- Indicateur de position (Voyant LED)
- Tension alimentation 24V
- BP d'économie d'énergie
- Position indicator (LED- low energy consumption)
- Supply voltage 24V

Material:

- Enclosure and Lock Stainless Steel





Triangle and EMKA Key SDW **Operated switch** VLH1 **Back of Board Version**

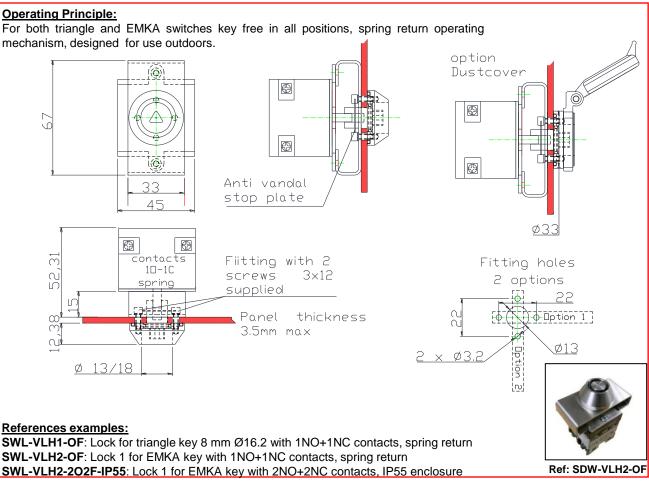






Réf: SDW-VLH1-OF-CE





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Characteristics:

- Lock with 1NO+1NC 4 KW rotative switch. 45° rotation.
- Designed for use in emergency enclosure applications
- Automatic spring return mechanism for fail safe operation
- FOB mounting, fitted with water proof gaskets
- Indestructible by mechanical rotation stop
- Triangle key 8 mm Ø16.2 ref: VLH1
- Triangle key 7 mm Ø16.2 ref: VLH1A
- Triangle key 8 mm Ø18 ref: VLH1B
- EMKA key ref: VLH2

Material: Stainless Steel 316

Electrical features:

Contacts: 1NO+1NC AC21 16A, AC23 4kW/230V, 7.5/ 400V, AC3 3kW/230V,4 kW/400V, spring return operation

Options:

- IP55 enclosure ref: IP55
- 2NO+2NC contacts ref: 202F
- Lock dustcover ref : CE

SWL
VLH1Triangle & Emka key
Switch lock
Front of board version





Ref: SWL-VLH1-OF

Characteristics:

- Lock with 1NO+1NC 4 KW rotative switch. 45° rotation.
- Automatic spring return mechanism for fail safe operation
- FOB mounting, fitted with water proof gaskets
- Indestructible by mechanical rotation stop
- Triangle key 8 mm Ø16.2 ref: VLH1
- Triangle key 7 mm Ø16.2 ref: VLH1A
- Triangle key 8 mm Ø18 ref: VLH1B
- EMKA key ref: VLH2

Material: Stainless Steel 316

Electrical features:

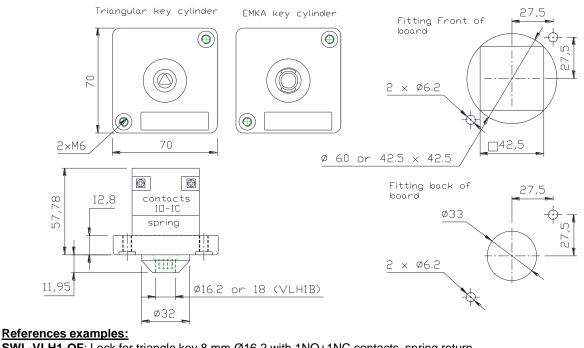
Contacts: 1NO+1NC AC21 16A, AC23 4kW/230V, 7.5/ 400V, AC3 3kW/ 230V, 4 kW/ 400V, spring return operation

Options:

- IP55 enclosure ref: IP55
- 2NO+2NC contacts ref: 202F
- For BOB version see ref : SDW VLH1
- For any non-standard requirement, please do contact us

Operating Principle:

For both triangle and EMKA switches key free in all positions, spring return operating mechanism, designed for use outdoors.



SWL-VLH1-OF: Lock for triangle key 8 mm Ø16.2 with 1NO+1NC contacts, spring return SWL-VLH2-OF: Lock 1 for EMKA key with 1NO+1NC contacts, spring return SWL-VLH2-202F-IP55: Lock 1 for EMKA key with 2NO+2NC contacts, IP55 enclosure SWL-VLH1B-OF: Lock for triangle hey 8mm Ø 18 with No+NC contact, spring return

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

Padlock devices for Pushbuttons TPL





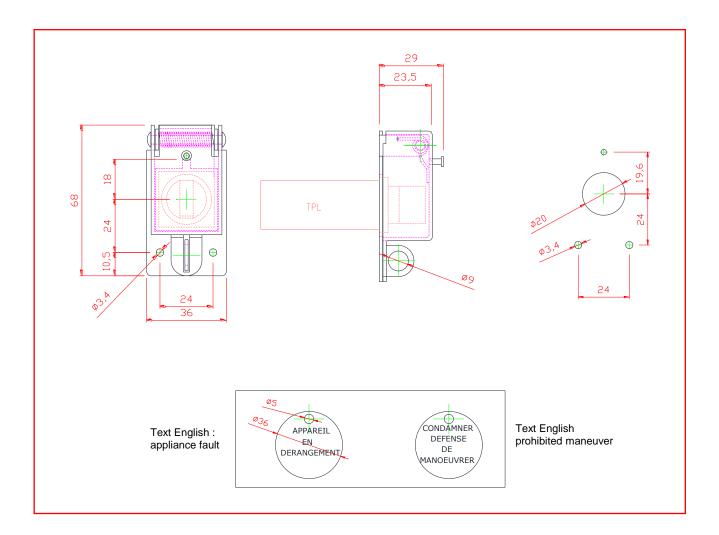
Réf: ES154

General characteristics:

- Padlock system forTPL 1
- Lockable both positions
- 3 Fixing rivets 3.2 mm in diameter and 8 mm long
- Open lid position by spring return
- Warning plate- diameter 40 mm, thickness 1.5 mm

Material:

- 304L stainless steel cover- epoxycoated red
- Baseplate Platinum 304 L stainless steel brushed
- Fixing with 3 304L brushed rivets, POP aluminum / steel
- Warning Plate alu- white background/ red Text



BPC

Padlockable push button, and option Safetycontacts





General characteristics :

- Safety padlocking device for push button diameter 22, with or without LED, in standard version lock control with 1NO contact **ref: 10**.
- Push button contact 1NO **ref: 10** , padlock shackle diameter 8mm maximum.
- Color standard: PB without LED : black **ref: BK**, PB with LED white **ref: VWE.**

Electrical characteristics :

- LED power supply : 24V ref:2 4V, 110 volts AC ref: 110V
- 240VAC ref: 240V
- Lock contact, Ith: 10A AC15-240V: 3A, DC13-240V/:0.27A
- PB contact : DC13-24V: 0.5A, AC15-24V=4A, AC15-240V: 1A
- Operating temperature: 20° C to 70°C

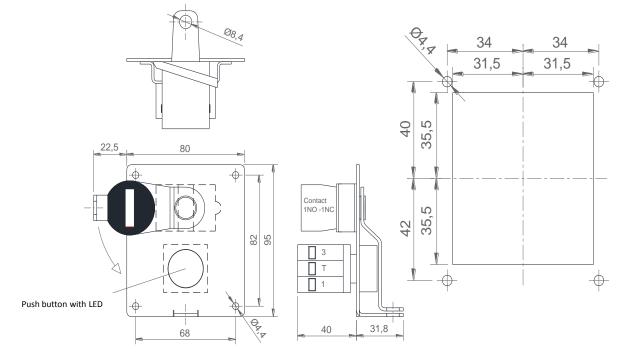
Options :

PB without LED: red: **RD**, blue: **BL**, green: **GR**, yellow: **YE** PB with LED : red : **VRD**, blue: **VBE**, green: **VGN**, yellow: **VYW** - Lock contact : without **ref: SC**, 1NO1NC **ref: 101F**, **2NO ref: 20**

- PB contact : 1NO1NC ref: 101F, 2NO ref: 20

Operating principle:

To prevent the use of the push button, turn the lock in the vertical position (contact closed position), install the padlock through the 8 mm diameter holes.



Reference examples:

BPC-10-1F-BK-20: black push button, lock contact 2NO(lock open), contacts PB 2NO **BPC-SC-VWE-240V-101F-:** White push button with LED power supply 240Volts, lock without switch, PB contacts 1NO-1NC

Padlocks





Characteristics:

- Designed exclusively for Lockout/Tagout (LOTO) applications
- Plastic shackle helps prevent electrocution and arc flashing, also prevents electrical current from shackle to key
- Key retaining-ensures that padlock is not left unlocked
- 1-1/2" (3.8cm) wide 1-3/4" (4.4cm) tall Thermoplastic red body, plastic shackle w/1-1/2" (3.8cm) clearance





Ref: 410REDLFR

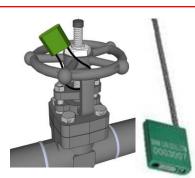
Ref: CAD-RON

Characteristics:

- Designed exclusively for Lockout/Tagout (LOTO) applications
- 1-1/2" (3.8cm) wide 1-3/4" (4.4cm) tall Thermoplastic red body, shackle w/1-1/2" (3.8cm) clearance
- Durable, lightweight, non-conductive Thermoplastic lock body
- Customize on-site with permanent, write-on labels
- Key retaining-ensures that padlock is not left unlocked

Characteristics:

- Solid brass body
- Hardened Steel shackle Double locking
- Replaceable cylinder
- Quick installation
- Brass Key
- Shackle diameter 8 mm -hight 56mm
- Body 47 x 50 x 27 mm



Ref: CLO-1000/3.5PTGRN

Carseals (Only for valves)

Characteristics:

- Car seals are a simple device for locking valves in the OPEN or CLOSED positions.
- Ideal for long term uses, each car seal is self locking so once the cable passes through the body, the only way to remove it's by cutting.
- All seals are individually numbered to allow easy identification.
- Supplied in packs of 10.

Other ranges



SECULOK – Trapped Key & Safety Gate Switch

Ref: ASCL-1E Solenoid controlled access lock



Ref: SWL-2O2F Key switch lock



Ref: BLT-HC-CE Consignation lock with padlock

Ref: EXL4E-1/3 Key exchange unit

RONIS – For safeguarding HV/MV equipment Switchgear-Breakers-Transformers



Ref: ELP1 Access lock



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