



Vendor Document Nr.: ALC-PDS-CDL-0001

Product Data Sheet

Closure Door lock

CDL Closure Door Lock

2	15-04-2024	CY	DK	HB	Final
Rev	Date	Originator	Reviewed	Approved	Description
		Alcatraz	Alcatraz	Alcatraz	

Product Data Sheet

Closure Door Lock

ALCATRAZ®
INTERLOCKS

Alcatraz Doc. No.: ALC-PDS-CDL-0001

Rev.: 2 Status: Final

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1. PRODUCT STANDARD FEATURES

CDL Features

- ✓ Machined AISI 316 body
- ✓ Mechanically programmed key codes
- ✓ Encapsulated lock portion preventing ingress & contamination
- ✓ Bespoke nameplate / tagging
- ✓ Compact ergonomic modular design
- ✓ Tamperproof mounted solutions
- ✓ Interlocked Bolt Lock open / closed position
- ✓ Alcatraz 5 step safety integrity design

Operational Keys

- ✓ Mechanically programmed keys
- ✓ Unique coding assigned
- ✓ Bespoke nameplate / tagging
- ✓ ASTM E208 25 metre drop test approved
- ✓ Encapsulated key housing

Installation

- ✓ Cold work permit for installation
- ✓ 2x M8x12 mounting screws
- ✓ Bespoke mounting bracket to suit host application
- ✓ Tamperproof fixings used throughout

A **CDL** lock can be used on various industrial closure door applications. It has a compact ergonomic modular design, and its primary function is to prevent the removal of a closure door bleed bolt, until the client has followed their own process procedure ensuring the vessel is fully depressurized.

For bespoke mounting solutions. Alcatraz would design the needed solution to suit your application needs.

Key Options

- ✓ Alcatraz can supply the following key options;
- ✓ **Replacement** key kit
- ✓ **Spare** key
- ✓ **Group** key
- ✓ **Master** key
- ✓ **Commissioning** key
- ✓ All the above are suitable for our complete product range.

A **Group** key would be used within a dedicated zone, system or process.

A **Master** Key allows an end client to operator regardless to product type, process logic situation all the Alcatraz products.

A **Commissioning** Key is used during the construction / commissioning phase of a project.

Ensuring the programmed sequence logic does not interfere with steam blowing, flushing or leak testing activities.

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2. PRODUCT DATA SHEET

Dimensions CL

Dimension		
Length	(mm)	Bespoke
Width	(mm)	96
Height	(mm)	82
Mass of interlock	(kg)*	<2.0

* Not including mounting bracket if required

Certificate & Standards

Certificate & Standards		
Product Material Cert.*	2.1	
Fire Test	ANSI / API 607	
ISO	ISO 9001 2015	
Electro Polishing	ASTM B912-02	
	ISBN 978-2-87997-310-4	
Atex	EU 2014/34	
	EU Atex Declaration of Conformity	
	If a Bartec switch is supplied	
* 3.1 material certificate available upon request		

Material Grades

Material Grades	
Interlock housing	SS 316
Internal Components	SS 316
Bracket (if applicable)	SS 316
Locking Fork	SS 316
Operational Key	SS 316
Tag plates	RESOPAL®

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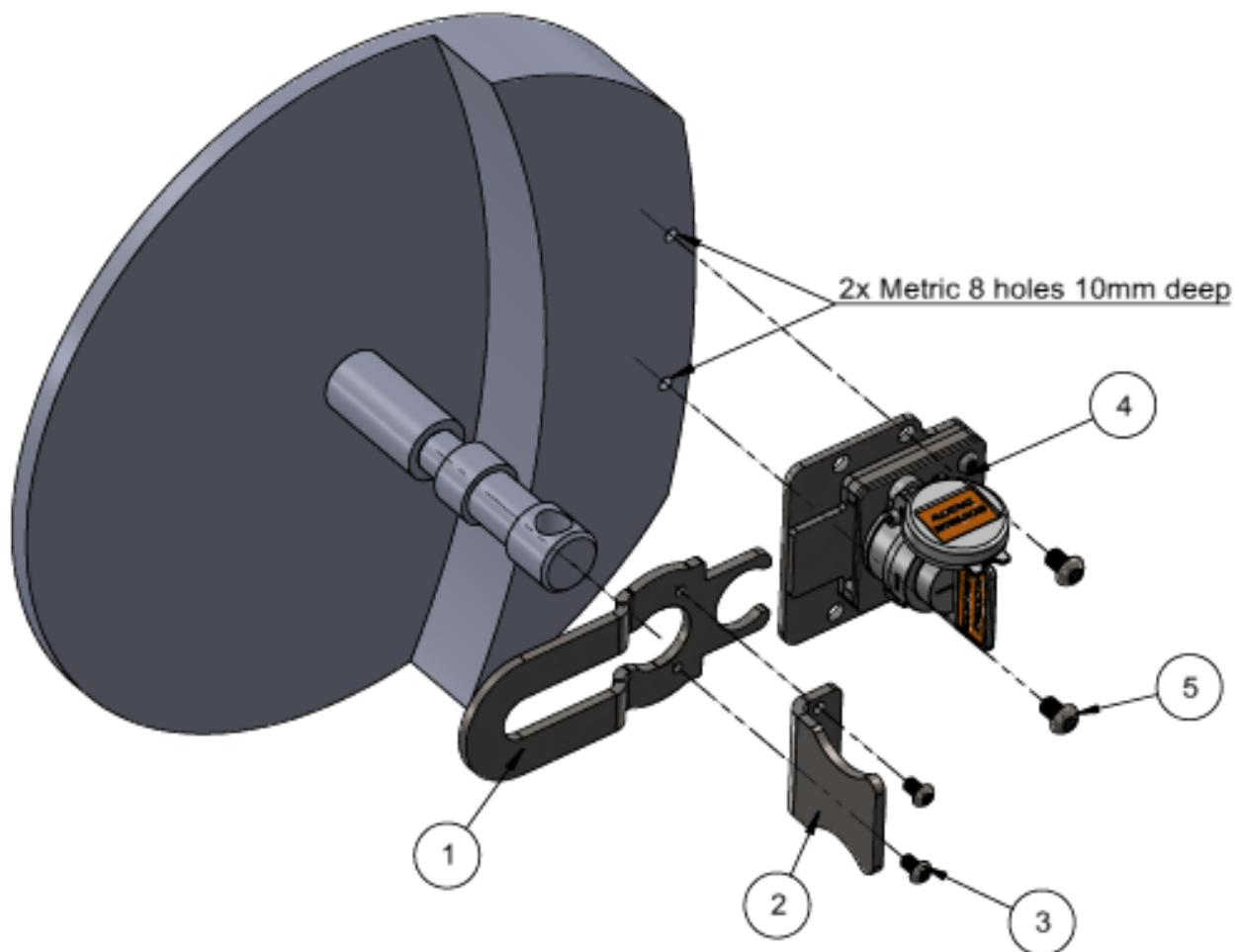
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3. EXPLODED VIEW



Bill Of Materials

Pos	Description	Material
1	Locking Fork	SS 316
2	Locking Fork Handle	SS 316
3	2x M6x10 Security Screws	A2 Stainless Steel
4	Closure Lock Body	SS 316 Electro Polished
5	2x M8x12 Security Screws	A2 Stainless Steel

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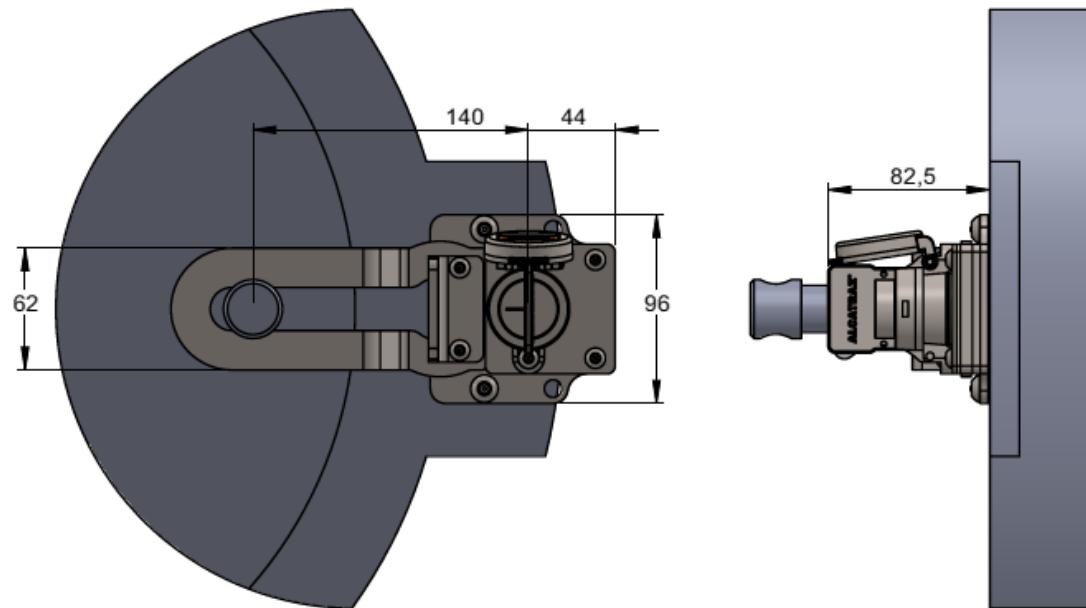
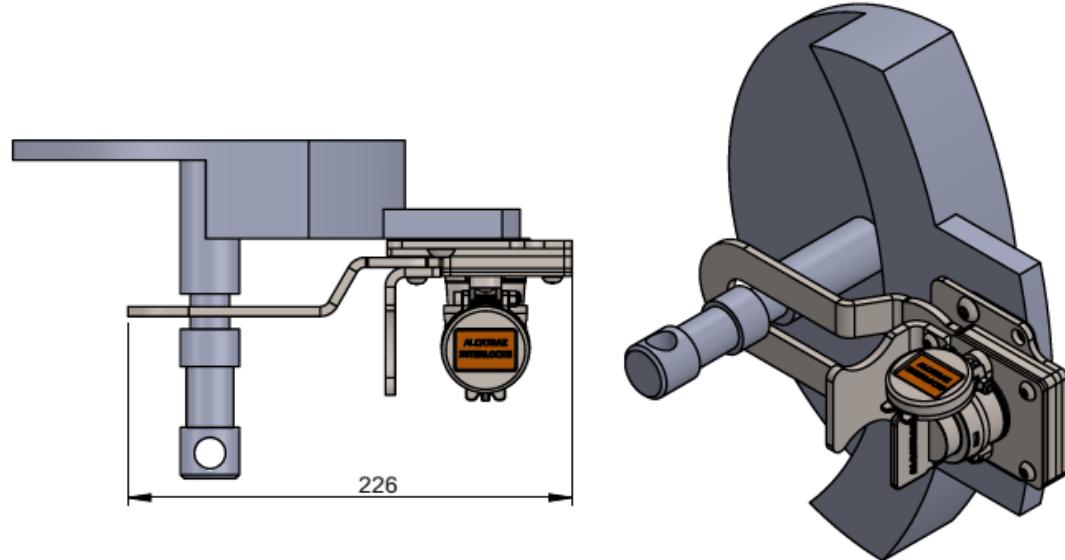
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4. CL GENERAL ARRANGEMENT DRAWING



Note:

The dimensional length of the fork differs in accordance to the host door size & brand

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5. SUMMARY OF SAFETY INTEGRITY STEPS

Alcatraz Integrity Step	Action	Purpose
Step 1	Insert operational key into key lock portion (LP) in a linear action	First stage linear action, to confirm the Mechanically Programmed Key Codes
Step 2	Rotation of engaged operational key within lock portion (LP)	Second stage action, to engage or disengage the internal bolt lock pin.
Step 3	Operational key encapsulates Lock Portion (LP) housing	Ensuring zero ingress or contamination into the Lock Portion coding (LP)
Step 4	Lock Portion (LP) separates & seals lock body from any external ingress and product tampering	An extra level of defence & separation between lock portion and interlock housing internal workings. No access / zero possibility to override internal lock workings or have exposure to ingress / contamination.
Step 5	Dedicated mounting footprint intergraded into housing.	Robust mechanical connection whereby operating forces are evenly shared across the housing and host surface. Tamperproof fixing materials, prevents uncontrolled removal and overriding possibilities.

**Alcatraz Mechanical Coded Key Interlock devices are in accordance to
EN ISO 14119:2013 Type-2 B.2**