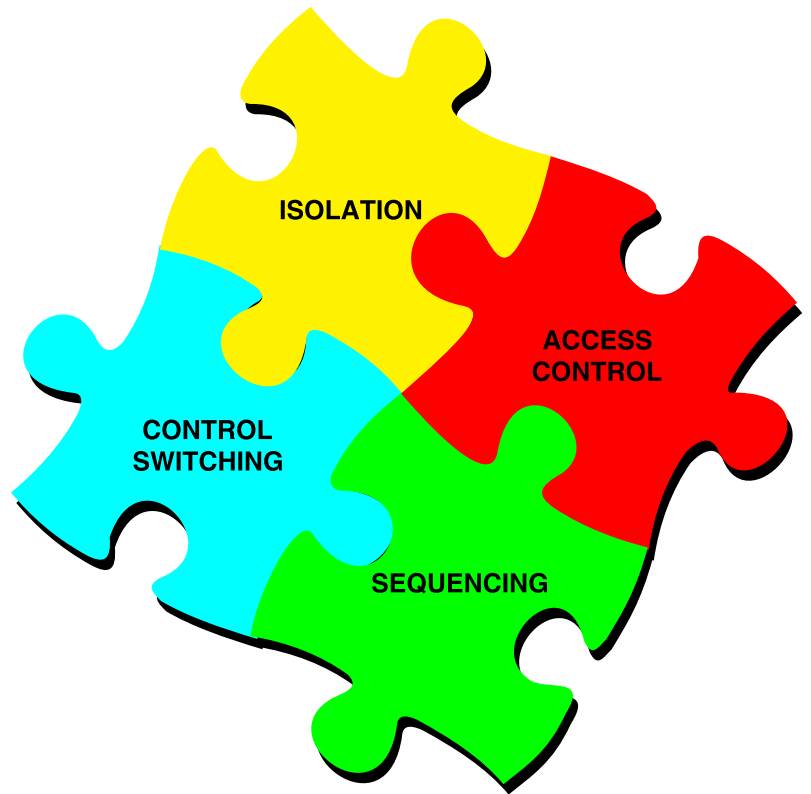
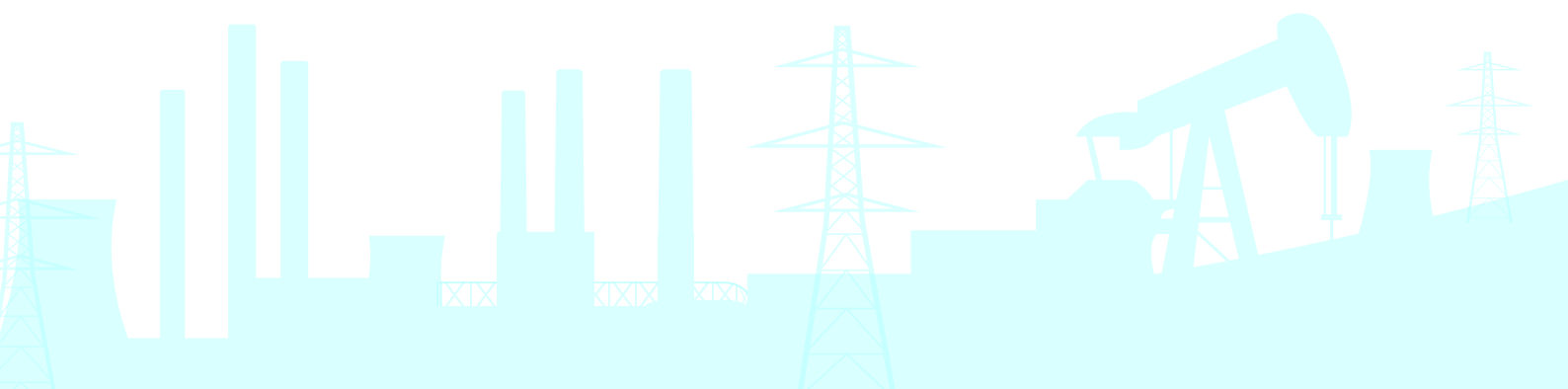


SAFETY INTERLOCKING SYSTEMS



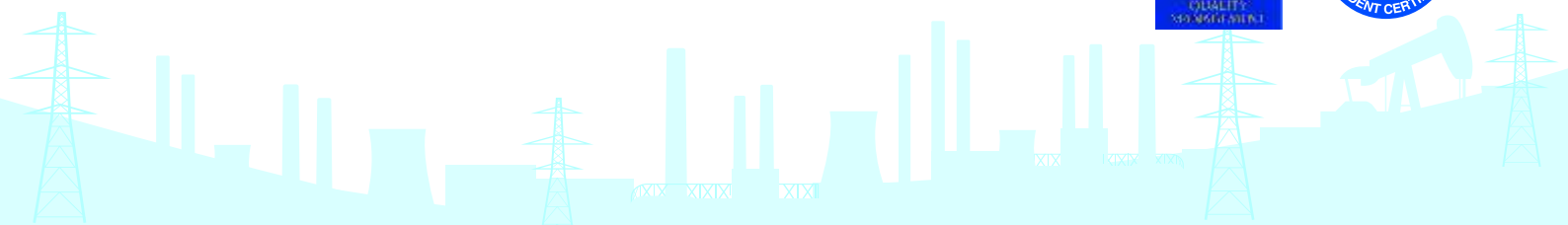
TRAPPED KEY INTERLOCKS FOR EVERY INDUSTRY

Electrical Isolation | Oil & Gas | Electrostatic Precipitators
Process Industry | Robotics & Automation | Mining
Railways | Machine Tools | Warehouses



INDEX

Page	Series	
01.		Introduction
02.	ILA/ILS	Standard Basic Locks
03.	ILA2	Double Basic Locks
04.	ILB	Bolt Interlocks
05.	ILB2	Double Bolt Interlock
06.	ILBV	Access Door Lock
07.	ILC	Heavy Duty Claw Interlocks
08.	ILH	Access Door Lock
09.	ILH2	Double Access Door Interlock
10.	ILP	Door Lock With Chained Bolt
11.	ILG	Slam Lock
12.	ILGS	Sliding Guard Lock
13.	ILE/ILSW	Rotary Switch Interlock
14.	ILJ/ILLS	Interlock With Integral Limit Switch
15.	ILX2	Modular Key Exchange System
16.	ILX1	Two Key Exchange Panel
17.	KEBX	Key Exchange Box - Control Key on Top
18.	KEYB	Double Row KEB - Control Lock on Side
19.	KEBZ	Single Row KEB Control Lock on Side
20.	ILRO	Solenoid Interlock Without Enclosure
21.	ILR1/ILRE	Solenoid Interlock With Enclosure
22.	ILT	Time Delay Solenoid Lock
23.	ILMTV	Valve Interlock
24.	ILK	Keys
25.		Accessories
	ILM1	Sealed Dust Cap
	ILM2	Interlocking Lever
26-29.		Applications



INTRODUCTION

Introduction to Trapped Key Interlocking

Trapped key Interlocking provides a simple solution to make Electrical installations, Process Industries, Machines and most Industrial Processes SAFE for people by Preventing Unauthorised access and Forcing implementation of Sequence of operations in a Predetermined order. The "mechanically trapped key" is released from its respective lock for transfer to another lock controlling an access door, machine or valve only when the primary drive or hazard has been isolated. Trapped key interlocking is a **Simple, but Robust** solution to avoid loss of life and property due to human error.

PSPC Interlocks

PSPC Interlocks have been in service for over 40 years in India and 25 years abroad they are trusted by customers in UK, Germany, other parts of Europe, Middle East and Far East. The interlocks are available in Figure type and Computer Coded Pin type models. The locks come with polished mirrorfinish and are manufactured out of solid brass or stainless steel for applications in highly corrosive environments and the Food industry. The lock body is manufactured out of machined single piece forgings for superior mechanical strength.

Quality

The interlocks are manufactured in accordance with the requirements of ISO 9001 : 2015 and comply with the Essential Health and Safety Directive 2006/42/EC and with ISO 14119. Most of our products were indigenously developed and covered by international design patents and copy rights. All our products carry CE Marking.

Specials, our Speciality!

We, at PSPC, are constantly developing new products. If you do not find a solution to meet your requirement in this catalog, please get in touch with us, as our catalog does not cover many special products, specially developed for certain clients. These may meet your need; else we will be pleased to undertake to develop something new to meet your requirement.



PSPC interlocks provide a "modular assembly" approach to safety . There is therefore no limit to the number of second keys or functions that can be controlled by the unique modular key exchange system. Immediate extension to existing systems are viable. Customised requirements with unique codes of alpha numeric combinations up to four symbols can be provided.



STANDARD BASIC LOCKS

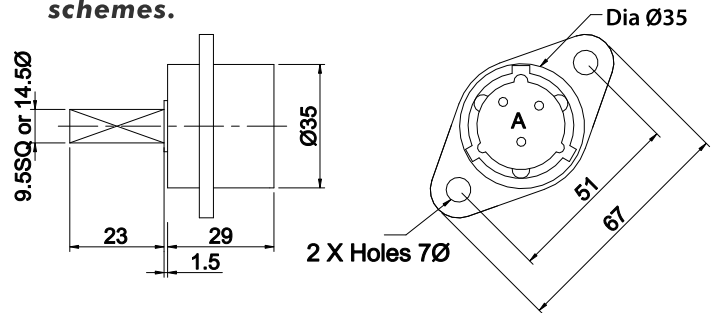
The Standard Basic Lock is suitable for use with a wide range of electrical switchgear. This lock is available in this type (I # A) and figure type (I # S) with standard and customised accessories to suit most suppliers of switchgear equipment (# : L for Brass and S for Stainless Steel) The Standard Version comes with a 9.5 square shaft or a 14.5 round shaft on the rear side, which engages

with the actuating lever on the switchgear / isolator. Power isolation is done by turning the key, which can be transferred to an access lock to enforce an interlocking sequence. The standard Basic lock is also used to ensure that multiple power supplies are not connected to a common busbar. ('P' for Pin type; 'F' for Figure type)

Please contact PSPC for standard suggested schemes.



Pin Type | ILA Series (P) Figure Type | ILS Series (F)



Technical Specification:

MODEL	MATERIAL	FINISH	FLANGE POSITION
ILA- 100	BRASS	UNPLATED BRASS	45° 135°
ILA- 100 N	BRASS	NICKEL PLATED	
ISA -100 (WITHOUT FLANGE)	STAINLESS STEEL	MIRROR FINISH	

Ordering Information:

MODEL	SHAFT SPECIFICATION	KEY ROTATION	DEGREE OF ROTATION	FLANGE DETAIL	FLIP CAP
ILA - 100	SQ : 9.5 SQUARE SHAFT OR RD : 14.5Ø ROUND SHAFT	CW / ACW	45/65/90	FL1 : 45° FLANGE / FL2 : 135° FLANGE / NFL: NO FLANGE	0 = NO 1 = YES
ISA - 100 (WITHOUT FLANGE)	SQ : 9.5 SQUARE SHAFT OR RD: 14.5Ø ROUND SHAFT	CW / ACW	45/65/90	NFL: NO FLANGE	0 = NO 1 = YES

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300



Dust Cap : ILM - 100



Example : ILA-P-100 N-SQ-CW-45-FL1-0 is a Basic Lock, Pin type, Brass, Nickel Plated, with 9.5 SQ shaft, clockwise key rotation for 45 Deg with Flange at 45 Deg, without flip cap



DOUBLE BASIC LOCK TYPE ILA / ISA

Figure Type | ILA 2 Series (F)

Operating Sequence

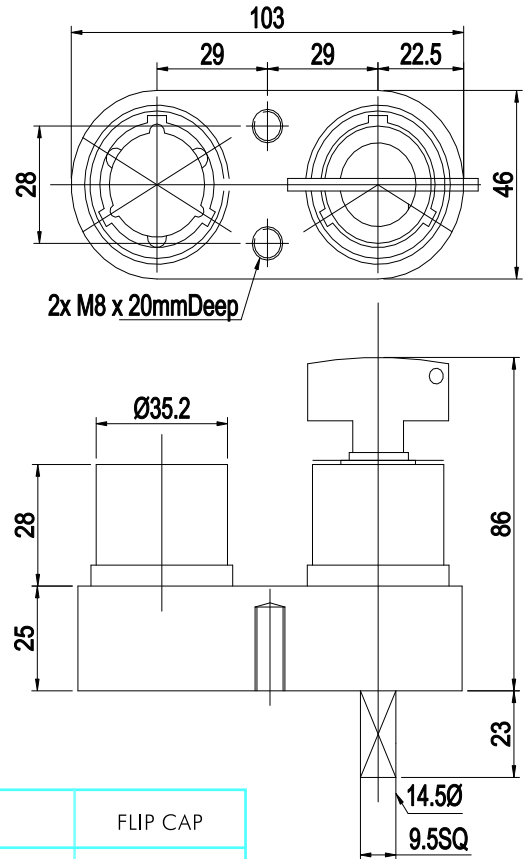
LEFT HAND KEY POSITION	RIGHT HAND KEY POSITION WITH REAR SHAFT
TYPE1 : KEY IS IN RELEASED POSITION	TYPE1 : KEY IS IN TRAPPED POSITION
KEY IN TRAPPED POSITION	KEY IN RELEASED POSITION
TYPE2 : KEY IS IN RELEASED POSITION	TYPE2 : KEY IS IN RELEASED POSITION
KEY IN TRAPPED POSITION	KEY IN TRAPPED POSITION

Technical Specification:

MODEL	MATERIAL	FINISH
ILA 2	BRASS	UN PLATED BRASS
ILA 2N	BRASS	NICKEL PLATED
ISA 2	STAINLESS STEEL	MIRROR FINISH

Ordering Information:

MODEL	SHAFT SPECIFICATION	KEY ROTATION	LOCK TYPE	FLIP CAP
ILA 2	9.5 SQUARE SHAFT OR 14.5Ø ROUND SHAFT	CW /ACW	TYPE:1 KEY EXCHANGE T1(PE2: BOTH KEYS TRAPPED	0= NO 1= YES
ISA 2	9.5 SQUARE SHAFT OR 14.5Ø ROUND SHAFT	CW / ACW	TYPE:1 KEY EXCHANGE T1(PE2: BOTH KEYS TRAPPED	0= NO 1= YES



ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300



Dust Cap : ILM-100



Example: ILA-P-2N-SQ-CW-1-0 is double basic lock, pin type, Brass Nickel plated, 9.5SQ stem, exchange type, clockwise, without flip cap

BOLT INTERLOCKS

The Bolt Interlock has an extendable bolt driven by a robust driving link inside the lock body. It is widely used to control the movement of the operating handle of Electrical Switchgear. The Standard version comes with a 9.5Ø or 16 Ø Bolt, It is used to control the movement of the

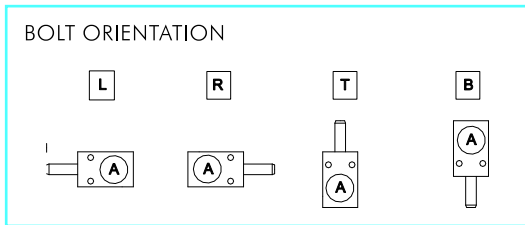
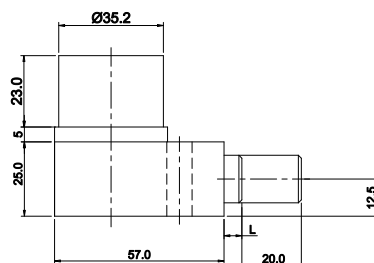
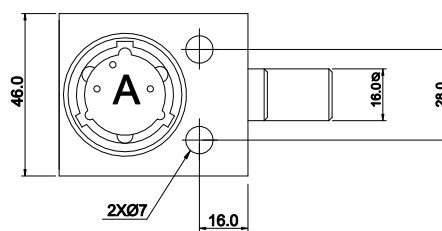
toggles, levers or cam of the switchgear. The brass version is called ILB and the stainless steel version is ISB. The Bolt interlock can be supplied with mounting kits or special attachments if required. ('P' for Pin type; 'F' for Figure type)



Pin Type | ILB Series (P)



Figure Type | ILB - 100 (F)



Bolt Specification

INITIAL LENGTH	L (KEY TRAPPED POSITION)
FINAL LENGTH	L+20 (KEY RELEASED POSITION)

Technical Specification:

MODEL	MATERIAL	FINISH
ILB	BRASS	UNPLATED BRASS
ILB N	BRASS	NICKEL PLATED
ISB	STAINLESS STEEL	MIRROR FINISH

Ordering Information:

MODEL	DIA OF THE BOLT	KEY ROTATION	BOLT ORIENTATION	BOLT INITIAL POSITION FROM BLOCK	KEY POSITION
ILB	9.5 / 16	CW / ACW	L/R/T/B L : LEFT R : RIGHT T : TOP B : BOTTOM	0 / 6 / 19 / 25	0 : KEY IN BOLT IN 1 : KEY OUT BOLT IN

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300



Dust Cap : ILM - 100



Example : ILB-F-N-9.5-CW-L-6-0 is a Bolt Lock, Figure type, Brass, Nickel Plated, with 9.5 Bolt clock wise rotation for 90o with 6mm initial Length without flip cap

DOUBLE BOLT INTERLOCK TYPE ILB/ ISB



This version of double bolt interlock has an extendable bolt driven by a robust driving link inside the lock body. The components are made of Brass hot stamp forgings and extrusion process. They are finished with bright Nickel plating for durability and attractive appearance, They are available in Double Lock & Key exchange Options.

Figure Type | ILB2 (F)

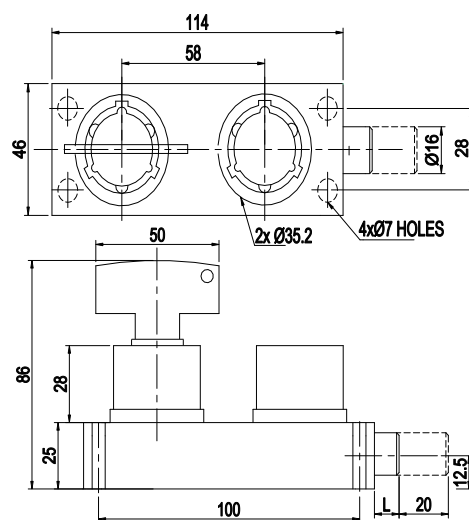
These locks are widely used in electrical switchgears and guardlocking with suitable accessories. ISB2 is the stainless steel version of these locks. ('P' for Pin type; 'F' for Figure type)

Operating Sequence:

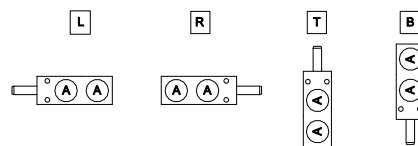
LEFT HAND KEY POSITION	RIGHT HAND KEY POSITION WITH REAR SHAFT	BOLT POSITION	LOCK TYPE
KEY IS IN RELEASED POSITION	KEY IN TRAPPED POSITION	BOLT EXTENDED	TYPE-1 EXCHANGE
KEY IN TRAPPED POSITION	KEY IN RELEASED POSITION	BOLT RETRACTED	TYPE-1 EXCHANGE
KEY IS IN RELEASED POSITION	KEY IS IN RELEASED POSITION	BOLT EXTENDED	TYPE-2 BOTH KEY TRAPPED
KEY IN TRAPPED POSITION	KEY IN TRAPPED POSITION	BOLT RETRACTED	TYPE-2 BOTH KEY TRAPPED

Technical Specification:

MODEL	MATERIAL	FINISH
ILB2	BRASS	UN PLATED BRASS
ILB2N	BRASS	NICKEL PLATED
ISB2	STAINLESS STEEL	MIRROR FINISH



BOLT ORIENTATION



Ordering Information:

MODEL	DIA OF THE BOLT	KEY ROTATION	BOLT ORIENTATION	BOLT INITIAL POSITION FROM BLOCK	LOCK TYPE
ILB2	Ø16	CW / ACW	L/R/T/B L : LEFT R : RIGHT T : TOP B : BOTTOM	0/6/19/25	TYPE:1 KEY EXCHANGE TYPE2: BOTH KEYS TRAPPED
ISB2	Ø16	CW / ACW	L/R/T/B L : LEFT R : RIGHT T : TOP B : BOTTOM	0/6/19/25	TYPE:1 KEY EXCHANGE TYPE2: BOTH KEYS TRAPPED

BOLT SPECIFICATION

INITIAL LENGTH	L (KEY TRAPPED POSITION)
FINAL LENGTH	L+20 (KEY RELEASED POSITION)

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300

Dust Cap : ILM-100

Example: ILB2 -P-N-16Ø-CW-L-0-1-0 is double bolt interlock, pin type, Brass Nickel plated, 16Ø Bolt, clockwise, initial length 0mm, left hand bolt, key exchange type, without flip cap



Figure Type | ILBV Door Interlock (F)

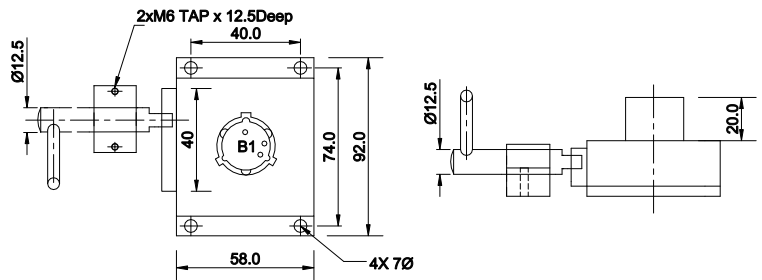
ACCESS DOOR INTERLOCK TYPE ILB2

This surface mounted two piece door interlock has an integral mechanism which ensures that the key inserted to gain access cannot be removed until the door or guard has been securely closed and the bolt fully engaged.

This lock is available in the Pin type and figure type, versions in brass with aluminium alloy housing. For stainless steel access door interlocks, use ISH Series. ('P' for Pin type; 'F' for Figure type)

Operating Sequence:

BOLT ASSEMBLY	CONTROL KEY
BOLT ASSEMBLY ENGAGED INTO THE LOCK	KEY IS IN RELEASED POSITION
BOLT ASSEMBLY RELEASED FROM THE LOCK	KEY IS IN TRAPPED POSITION



Technical Specification:

MODEL	MATERIAL	FINISH
ILBV P	ALUMINIUM / BRASS	HOUSING : ALUMINIUM - POWDER COATED LOCK BODY : BRASS - UNPLATED
ILBV P N	ALUMINIUM / BRASS	HOUSING : ALUMINIUM - POWDER COATED LOCK BODY : BRASS - NICKEL PLATED
ISBV P	ALUMINIUM / SS	HOUSING : ALUMINIUM - POWDER COATED LOCK BODY : STAINLESS STEEL

FOR ALL OPTIONS LOCKING BOLT MATERIAL : SS

Ordering Information:

MODEL	100 / 110 / 111	KEY ROTATION	KEY POSITION
ILBV P / ILBV P N / ISBV P	100: LEFT HAND BOLT 110: FLOATING BRACKET 111 : RIGHT HAND BOLT	CW / ACW	0 : KEY IN BOLT ASSY OUT

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300



Dust Cap : ILM - 100



Example : ILBV – P – N – 100 – CW – 0 – 0 : Access Door Interlock, Pin type, Brass Nickel Plated, Clockwise Left hand bolt assy, Without Flip Cap

CLAW INTERLOCK TYPE ILC



Pin Type | ILC Series (P)



Figure Type | ILC Series (F)

Claw interlocks are similar in function to Bolt interlocks. Claw interlocks facilitate installation on simple valve or other control applications. The claw/bolt is moved by hand and is not internally driven and has a travel of 75mm.

Another model of claw interlocks which is internally driven and has a travel of 20mm is normally used in switchgear.

Special claw size and multiple key versions are available.

Rear Mounting holes or through mounting holes versions are available.

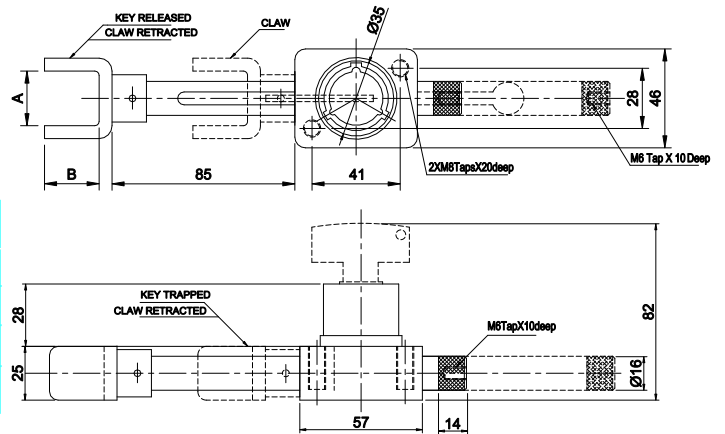
('P' for Pin type; 'F' for Figure type)

Operating Sequence:

INITIAL LENGTH	L (KEY TRAPPED POSITION)
FINAL LENGTH	L+20 (KEY RELEASED POSITION)

Technical Specification:

MODEL	MATERIAL	FINISH
ILC 1	BRASS	UN PLATED BRASS
ILC 1N	BRASS	NICKEL PLATED
ISC	STAINLESS STEEL	MIRROR FINISH



Ordering Information:

MODEL	KEY ROTATION	BOLT ORIENTATION	BOLT INITIAL LENGTH	CLAW SIZE
ILC PUSH TYPE	CW / ACW	L / R/T/B L : LEFT R : RIGHT T ; TOP B . BOTTOM	NA	25/38/50/63
ILC INTERNAL DRIVE TYPE	CW / ACW	L / R/T/B L : LEFT R : RIGHT T ; TOP B . BOTTOM	25 TO 80MM TRAVEL-20MM	7 TO 20MM
ISC PUSH TYPE	CW / ACW	L / R/T/B L : LEFT R : RIGHT T ; TOP B . BOTTOM	NA	25/38/50/63

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300



Dust Cap : ILM-100



Example: ILC-P-1N-CW-R-25-Push type-0 claw interlock, pin type, Brass Nickel plated, clockwise, right hand bolt assembly, push type, 25mm claw, without flip cap

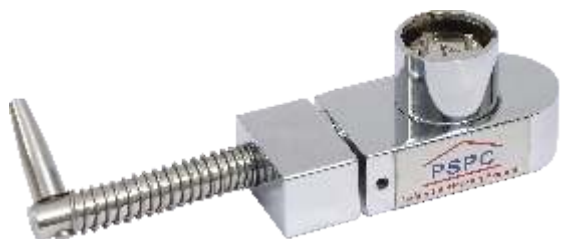
ACCESS DOOR INTERLOCK TYPE ILH / ISH

This surface mounted two piece door interlock has an integral mechanism which ensures that the key inserted to gain access cannot be removed until the door or guard has been securely closed and the bolt fully engaged.

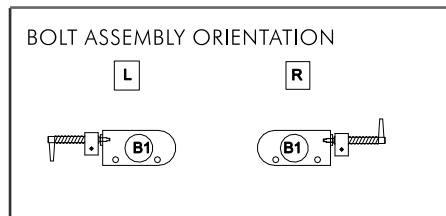
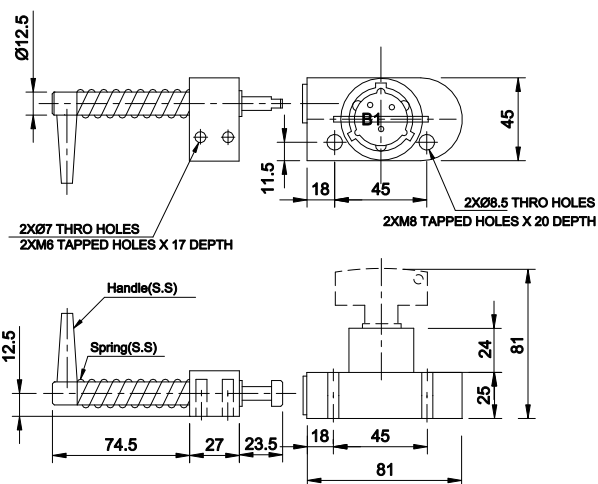
The standard unit has blind tapped back mountings which make it tamper proof from the outside.

A floating bolt mounting bracket which provides flexibility to accommodate misalignment is also available, The smaller version is called the ILD Series.

(‘P’ for Pin type; ‘F’ for Figure type)



Pin Type | ILH Series (P)



Operating Sequence:

BOLT ASSEMBLY	CONTROL KEY
BOLT ASSEMBLY ENGAGED IN TO THE LOCK	KEY IS IN RELEASED POSITION
BOLT ASSEMBLY RELEASED FROM THE LOCK	KEY IS IN TRAPPED POSITION

Technical Specification:

MODEL	MATERIAL	FINISH
ILH	BRASS	UNPLATED BRASS
ILH - N	BRASS	NICKEL PLATED
ISH	STAINLESS STEEL	MIRROR FINISH

Ordering Information:

MODEL	KEY ROTATION	BOLT ORIENTATION
ILH	CW/ACW	L/R L-LEFT, R-RIGHT
ISH	CW/ACW	L/R-LEFT, R-RIGHT

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300

Dust Cap : ILM - 100

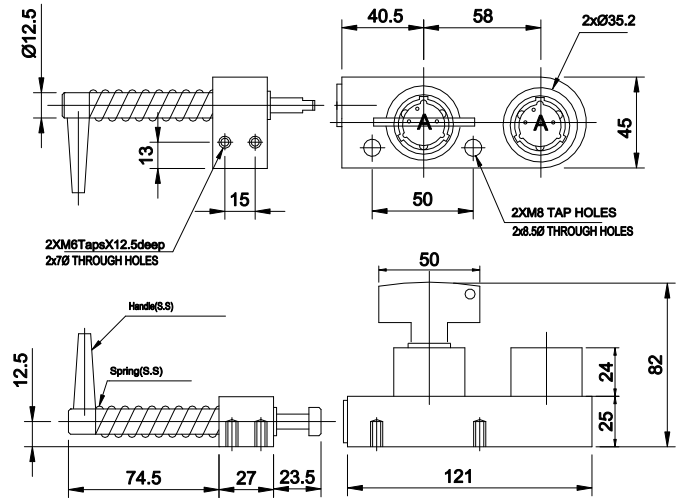


Example : ILH – P – N – 100 – L – CW – 0 : Access Door Interlock, Pin type, Brass Nickel Plated, Clockwise Left hand bolt assembly, without Flip Cap

DOUBLE DOOR INTERLOCK TYPE ILH / ISH



Pin Type | ILH Series (P)



Operating Sequence:

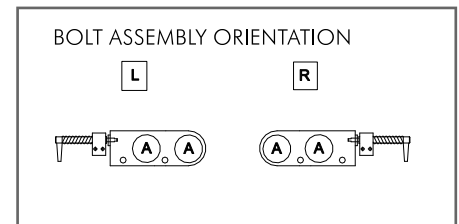
LEFT HAND KEY POSITION	RIGHT HAND KEY POSITION	BOLT POSITION	LOCK TYPE
KEY IS IN RELEASED POSITION	KEY IN TRAPPED POSITION	BOLT ASSEMBLY ENGAGED TO LOCK TYPE-1	TYPE-1 EXCHANGE
KEY IN TRAPPED POSITION	KEY IN RELEASED POSITION	BOLT ASSEMBLY RELEASED FROM LOCK	TYPE-1 EXCHANGE
KEY IS IN RELEASED POSITION	KEY IS IN RELEASED POSITION	BOLT ASSEMBLY ENGAGED TO LOCK	TYPE-2 BOTH KEY RELEASED
KEY IN TRAPPED POSITION	KEY IN TRAPPED POSITION	BOLT ASSEMBLY RELEASED FROM LOCK	TYPE-2 BOTH KEY RELEASED

Technical Specification:

MODEL	MATERIAL	FINISH
ILH 2	BRASS	UN PLATED BRASS
ILH 2N	BRASS	NICKEL PLATED
ISH 2	STAINLESS STEEL	MIRROR FINISH

Ordering Information:

MODEL	KEY ROTATION CW / ACW	BOLT ORIENTATION	LOCK TYPE
ILH 2 ISH 2		L / R L : LEFT R : RIGHT	TYPE1 = EXCHANGE TYPE2 = BOTH KEY TRAPPED



This series is a heavy duty door interlock double version of “key exchange” and “two key trapped” types. Popularly these interlocks are used in robot cell applications.

Normally they are available with rear mounting holes and are mounted on rear adapter plate. Through mounting holes and floating bolt mounting bracket to overcome guard misalignment, are also available.

Integral switch with ILH is also available. ('P' for Pin type; 'F' for Figure type)

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300

Dust Cap : ILM - 100



Example : ILH-P-2N-CW-L-1-0 is a Double access door interlock, Pin type, Brass Nickel plated, Clockwise, left hand bolt assembly, exchange type, without Flip Cap

DOOR INTERLOCK WITH CHAINED BOLT TYPE ILP / ISP



Pin Type | ILA Series (P)

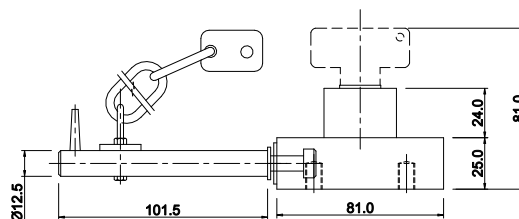
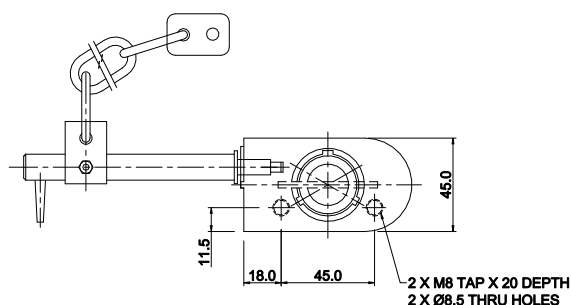
This Door Interlock is ideal for us in places where alignment is extremely difficult by providing free movement of the bolt through heavy duty stainless steel welded link chain attachment. Both surface & through hole mounting versions are available. ('P' for Pin type; 'F' for Figure type)

Operating Sequence:

BOLT ASSEMBLY	CONTROL KEY
BOLT ASSEMBLY ENGAGED IN TO THE LOCK	KEY IS IN RELEASED POSITION
BOLT ASSEMBLY RELEASED FROM THE LOCK	KEY IS IN TRAPPED POSITION

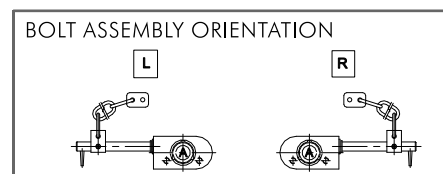
Technical Specification:

MODEL	MATERIAL	FINISH
ILP	BRASS	UNPLATED BRASS
ILP N	BRASS	NICKEL PLATED
ISP	STAINLESS STEEL	MIRROR FINISH



Ordering Information:

MODEL	KEY ROTATION	BOLT ASSEMBLY ORIENTATION	KEY POSITION
ILP	CW	L / R L : LEFT R : RIGHT	0 : KEY IN BOLT OUT



ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300

Dust Cap : ILM - 100



Example : ILP – P – N – 200 - L – CW – 0- 0 : Access Door Interlock Chain bolt assembly, Pin type, Brass Nickel Plated, Clockwise, 200mm SS Chain, Key in bolt out, without Flip Cap



SLAM LOCK TYPE ILG

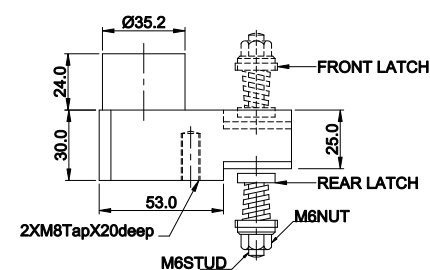
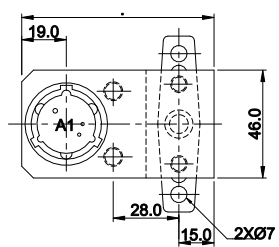
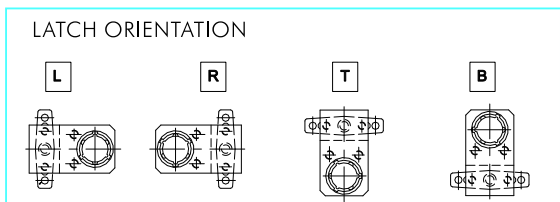
This is a self aligning "slam action" Interlock for lighter guards and covers. They will release the control key only when the latching mechanism is engaged. They are available in front and rear latch styles for all applications. Through hole mounting versions are available for the entire range.

Pin Type | ILG Series (P)

The self ejecting feature of this series ensures that released guards can easily be located and the standard floating latch assembly will cope with minor misalignment due to wear.

The slam lock is available in Pin type and Figure type. Both types are available in Brass and Stainless Steel. ('P' for Pin type; 'F' for Figure type)

KEY POSITION
KEY IN RELEASED
KEY IN TRAPPED



Technical Specification:

MODEL	LATCH POSITION	MATERIAL	FINISH
ILG / ILG - N / ISG	FR : FRONT / RE : REAR	BRASS / STAINLESS STEEL	BRASS - UNPLATED / NICKEL PLATED STAINLESS STEEL - MIRROR POLISHED

Ordering Information:

MODEL	TYPE	LATCH POSITION	LATCH	LATCH ORIENTATION
ILG / ILG - N / ISG	P .PIN :PIN	FR :FRONT RE :REAR	0 = LATCH 1 = LATCH + SPRING + PLATE	L/R/T/B L : LEFT R : RIGHT T : TOP B : BOTTOM

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300



Dust Cap : ILM - 100



Example : ILG – P – N – FR - 0 – L - CW– 0 : Slam Lock , Pin type, Brass Nickel Plated, Clockwise, Front Latch, only latch assy, left hand latch, without Flip Cap

SLIDING GUARD INTERLOCK TYPE ILGS/ ISGS



For use in sliding guard applications, this interlock incorporates a self - ejecting stainless steel bolt with a throw upto 40mm. The key is released only when the bolt is depressed and engaged in corresponding holes in the sliding guard. Through mounting hole versions are also available. ('P' for Pin type; 'F' for Figure type)

Pin Type | ILGS Series (P)

Operating Sequence:

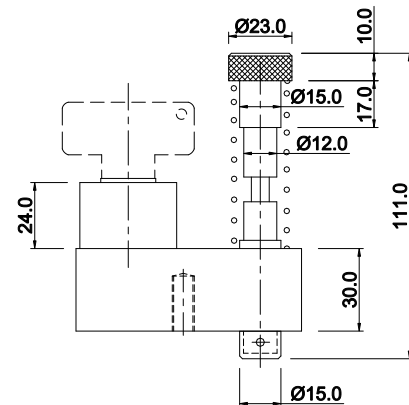
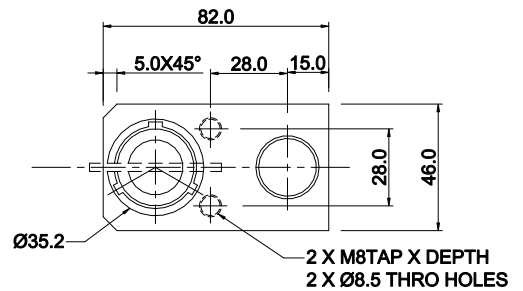
BOLT ASSEMBLY	CONTROL KEY
BOLT ASSEMBLY IN EXTENDED POSITION	KEY IS IN RELEASED POSITION
BOLT ASSEMBLY IN RETRACTED POSITION	KEY IS IN TRAPPED POSITION

Technical Specification:

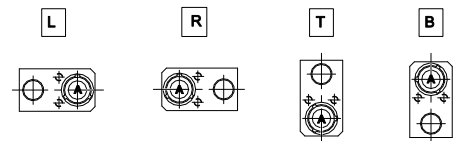
MODEL	MATERIAL	FINISH
ILGS	BRASS	UNPLATED BRASS
ILGS N	BRASS	NICKEL PLATED
ISGS	STAINLESS STEEL	MIRROR FINISH

Ordering Information:

MODEL	KEY ROTATION	BOLT ASSEMBLY ORIENTATION	KEY POSITION
ILGS	CW	L/R/T/B L : LEFT R : RIGHT T : TOP B : BOTTOM	0 : KEY IN BOLT RETRACTED



BOLT ASSEMBLY ORIENTATION



ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300



Dust Cap : ILM - 100



Example : ILGS – P – N – R – CW - 0 – 0 : Sliding Guard Lock , Pin type, Brass Nickel Plated, Clockwise Right hand bolt Assy, Key in bolt retracted, without Flip Cap

ROTARY SWITCH INTERLOCK TYPE ILE



Pin Type | ILE Series (P)

A wide range of Interlock Isolation switches is available from PSPC, providing the ideal control for use in majority of electrical machines systems. Rotary switch interlock can be supplied suitable for panel mounting or with enclosure, in current range from 20 to 150amps and any switching configuration may be supplied at short notice.

They are also available in multiple key versions to suit specific application.

The most commonly used 16A, 440VAC, 2 NO 2 NC configuration is available ex - stock or at short delivery. ('P' for Pin type; 'F' for Figure type)

Operating Sequence:

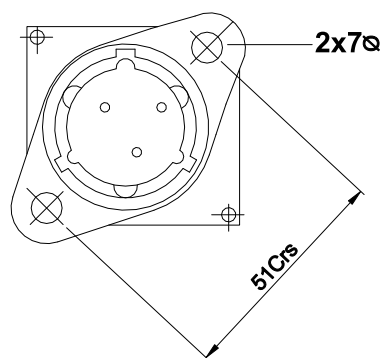
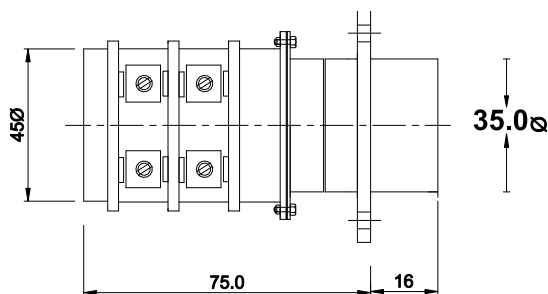
SWITCH POSITION	CONTROL KEY
ON	KEY IS IN TRAPPED POSITION
OFF	KEY IS IN RELEASED POSITION

Technical Specification:

MODEL	MATERIAL	FINISH
ILE	BRASS	UNPLATED BRASS
ILE N	BRASS	NICKEL PLATED
ILE N E (WITH ENCLOSURE)	BRASS	NICKEL PLATED

Ordering Information:

MODEL	NO. OF CONTACTS*	CURRENT RATING OF CONTACTS
ILE / ILE N / ILE N E	1 NO / 1 NC 2 NO / 2 NC 4 NC 6 POLE	16 / 25A DEFAULT 16A



ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300



Dust Cap : ILM - 100



Example : ILE – P – N – 2NO/2NC – 16A- CW– 0 : Rotary Switch Interlock , Pin type, Brass Nickel Plated, Clockwise 2NO + 2NC Contacts 16A Rated ,without Flip Cap

INTERLOCK WITH INTEGRAL LIMIT SWITCH TYPE ILJ

These Bolt Interlocks incorporate an integral positive drive operation of a limit switch rated at

240VAC 10A. other ratings available on request. They are intended to provide remote status indication or to operate associated equipments such as exhaust fans or illuminations. ('P' for Pin type; 'F' for Figure type)



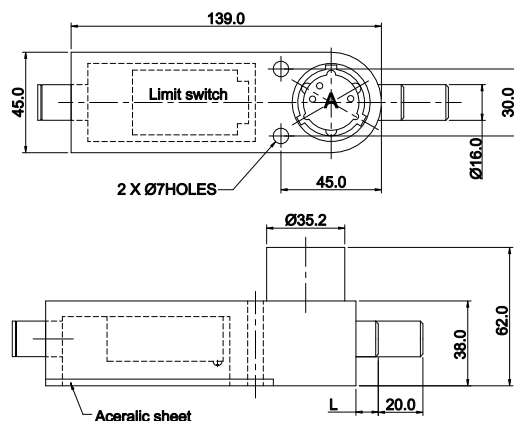
Pin Type | ILJ Series (P)

Operating Sequence:

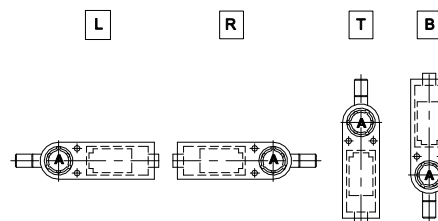
INITIAL LENGTH	L (KEY TRAPPED POSITION)
FINAL LENGTH	L+20 (KEY RELEASED POSITION)

Technical Specification:

MODEL	MATERIAL	FINISH
ILJ	ALUMINIUM / BRASS	HOUSING : ALUMINIUM - POWDER COATED LOCK BODY : BRASS - UNPLATED
ILJ N	ALUMINIUM / BRASS	HOUSING : ALUMINIUM - POWDER COATED LOCK BODY : BRASS - NICKEL PLATED



BOLT ORIENTATION



Ordering Information:

MODEL	DIA OF THE BOLT	KEY ROTATION	BOLT ORIENTATION	BOLT INITIAL POSITION FROM BLOCK	KEY POSITION
ILJ	16	CW	L/R/T/B L : LEFT R : RIGHT T : TOP B : BOTTOM	0 / 6 / 19 / 25	0 : KEY IN BOLT IN 1 : KEY OUT BOLT IN

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300

Dust Cap : ILM - 100



Example : ILJ – P – N – 16Dia - CW– R- 0 - 0 : Bolt Interlock Integrated Limit Switch 1NO+1NC , Pin type, Brass Nickel Plated, 16Dia, Clockwise, Right hand Bolt , Key in Bolt in, without Flip Cap

MODULAR KEY EXCHANGE SYSTEM TYPE ILX-2

This unique modular key exchange system enables additional key exchange positions to be

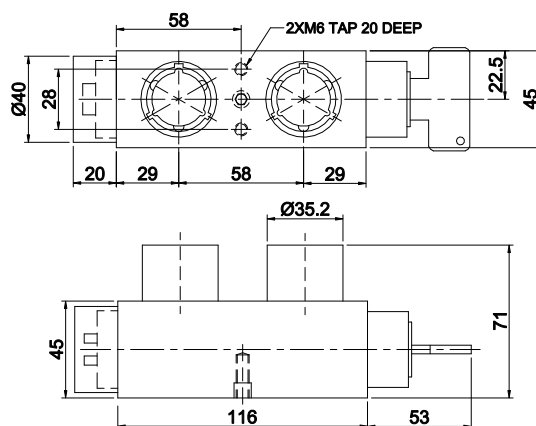


added at will. The basic starter exchange module enables the control key to be released by the insertion of only two secondary (access) keys. The number of secondary keys is increased by simply adding double (or single) lock extension units as required, to the starter module unit. ('P' for Pin type; 'F' for Figure type)

Pin Type | ILX-2 Series (P)

Operating Sequence:

FRONT LOCK KEY POSITION	CONTROL LOCK KEY POSITION
ALL THE KEY ARE RELEASED POSITION	CONTROL KEY IS TRAPPED POSITION
ALL THE KEY ARE TRAPPED POSITION	CONTROL KEY IS RELEASED POSITION



Technical Specification:

MODEL	MATERIAL	FINISH
ILX - 2##	ALUMINIUM /BRASS	HOUSING : ALUMINIUM - POWDER COATED LOCK BODY : BRASS - UNPLATED
ILX - 2## N	ALUMINIUM /BRASS	HOUSING : ALUMINIUM - POWDER COATED LOCK BODY : BRASS - NICKEL PLATED
ISX - 2#44	ALUMINIUM / SS	HOUSING : ALUMINIUM - POWDER COATED LOCK BODY : STAINLESS STEEL

Ordering Information:

MODEL	KEY ROTATION	NO. OF FRONT LOCK	NO. OF CONTROL LOCK
ILX - 212 / ISX - 212	CW	2	1
ILX - 202 / ISX - 202	CW	2	0
ISX - 201 / ISX - 201	CW	1	0

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300

Dust Cap : ILM - 100

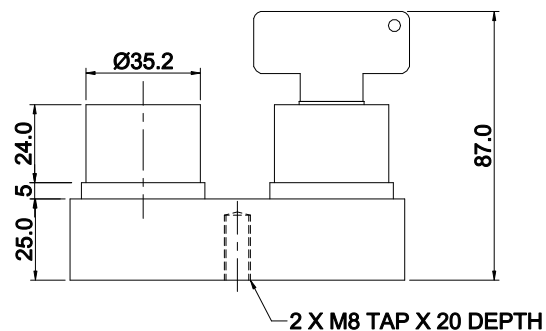
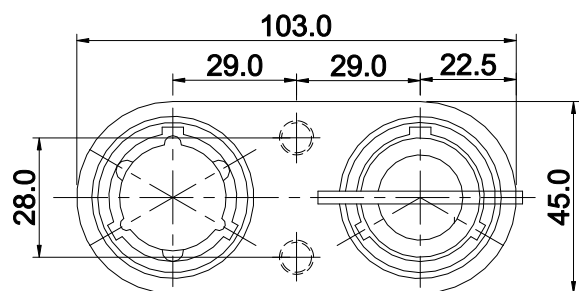


Example : ILX -212- P – N - CW - 0 : Modular Key Exchange system, Pin type, Brass Nickel Plated, 2 Nos Front Locks 1 Control Lock , Clockwise, without Flip Cap.

TWO KEY EXCHANGE PANEL TYPE ILX-1



For use within or between systems, for sequencing or supervisory control, this is the simplest of our key exchanges for many interlocking solutions. ('P' for Pin type; 'F' for Figure type)



Pin Type | ILX-1 Series (P)

Operating Sequence:

LEFT HAND KEY POSITION	RIGH T HAND KEY POSITION
KEY IN RELEASED POSITION	KEY IS IN TRAPPED POSITION
KEY IS IN TRAPPED POSITION	KEY IN RELEASED POSITION

Technical Specification:

MODEL	MATERIAL	FINISH
ILX -1	BRASS	UNPLATED BRASS
ILX - 1 N	BRASS	NICKEL PLATED
ISX -1	STAINLESS STEEL	MIRROR FINISH

Ordering Information:

MODEL	KEY ROTATION
ILX - 1	CW

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300

Dust Cap : ILM - 100



Example : ILX -1 - P - N - CW - 0 : Two Key Exchange Panel, Pin type, Brass Nickel Plated, Clockwise, without Flip Cap

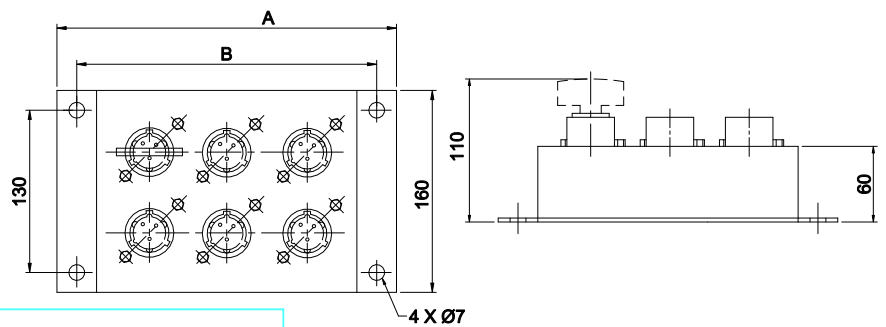
KEY EXCHANGE BOX - X TYPE (CONTROL LOCK ON TOP)

Key Exchange Boxes (KEB) are used in Key Transfer applications. One or Several Keys are trapped in the KEB to release the desired key or keys. For example in a typical application to isolate several live connections

for maintenance, the access door keys are released, only when the key of the switches are trapped in the KEB. The KEB can be designed to have more than one control key, which is trapped in the KEB to release other keys simultaneously or sequentially. In the X Type KEB, the control lock(s) on top of the box, and multiple rows of locks as required are provided. ('P' for Pin type; 'F' for Figure type)



Pin Type | KEB-X Series (P)



Operating Sequence:

KEB CONTROL KEY	KEB FRONT KEYS
TRAPPED	ALL THE KEYS RELEASED
RELEASED	ALL THE KEYS TRAPPED

Technical Specification:

ENCLOSURE	INTERLOCKS
MS POWDER COATED	BRASS (UNPLATED / NICKEL PLATED) / STAINLESS STEEL
STAINLESS STEEL	STAINLESS STEEL

DIMENSION DETAILS

KEB TYPE - X		
NO. OF FRONT LOCKS	DIMN.-A	DIMN.-B
6	260	235
8	320	295
10	380	355
12	440	415
14	500	475
16	560	535
18	620	595
20	680	655
22	740	715
24	800	775

Ordering Information:

MODEL	KEY ROTATION	CONTROL LOCK	SECONDARY LOCK
KEB X	CW / ACW	NO. OF CONTROL LOCKS	NO. OF SECONDARY LOCKS

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300

Dust Cap : ILM - 100



Example : KEB X – P – N – CW – 1C- 5F-0 : Key Exchange Box, Pin type, Brass Nickel Plated, Clockwise, 1No Control Lock and 5Nos Front locks, without Flip Cap

KEY EXCHANGE BOX - Y TYPE (DOUBLE ROW)

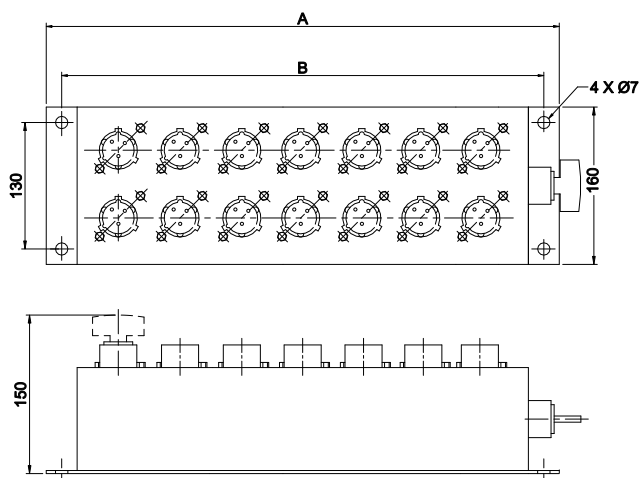
Key Exchange Boxes (KEB) are used in Key Transfer applications. One or Several Keys are trapped in the KEB to release the desired key or keys. For example in a typical application to isolate several, live connections for maintenance, the access door keys are released, only when

the key of the switches are trapped in the KEB. The KEB can be designed to have more than one control key, which is trapped in the KEB to release other keys simultaneously or sequentially.

In the Y Type KEB the control lock is on the side of the box. ('P' for Pin type; 'F' for Figure type)



Pin Type | KEB-Y Type (P)



Operating Sequence:

KEB CONTROL KEY	KEB FRONT KEYS
TRAPPED	ALL THE KEYS RELEASED
RELEASED	ALL THE KEYS TRAPPED

Technical Specification:

ENCLOSURE	INTERLOCKS
MS POWDER COATED	BRASS (UNPLATED / NICKEL PLATED) / STAINLESS STEEL
STAINLESS STEEL	STAINLESS STEEL

DIMENSION DETAILS:

KEB TYPE - Y		
NO. OF FRONT LOCKS	DIMN.-A	DIMN.-B
6	260	235
8	320	295
10	380	355
12	440	415
14	500	475
16	560	535

Ordering Information:

MODEL	KEY ROTATION	CONTROL LOCK	SECONDARY LOCK
KEB Y	CW / ACW	NO. OF CONTROL LOCKS	NO. OF SECONDARY LOCKS

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300



Dust Cap : ILM - 100



Example : KEB Y – P – N – CW – 1C- 5F-0 : Double row Key Exchange Box, Pin type, Brass Nickel Plated, Clockwise, 1No Control Lock and 5Nos Front locks, without Flip Cap

KEY EXCHANGE BOX - Z TYPE (SINGLE ROW)

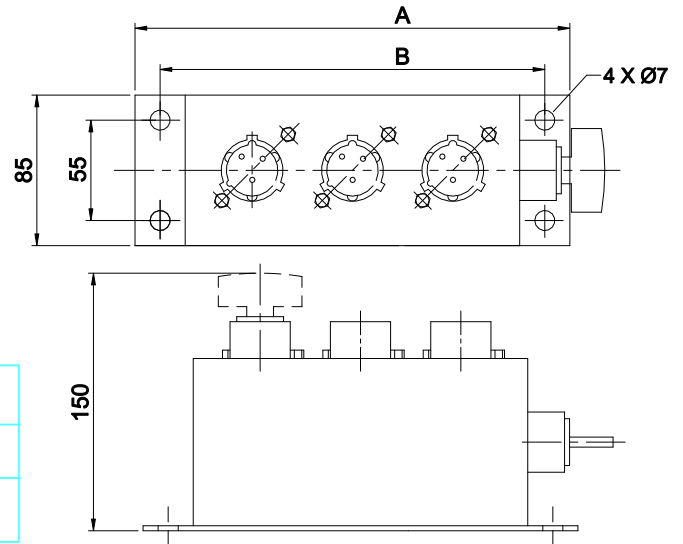
Z type key exchange boxes are single row key exchange box with a single control lock and key on the side. ('P' for Pin type; 'F' for Figure type)



Pin Type | KEB - Z Type (P)

Operating Sequence:

KEB CONTROL KEY	KEB FRONT KEYS
TRAPPED	ALL THE KEYS RELEASED
RELEASED	ALL THE KEYS TRAPPED



Technical Specification:

MODEL		MATERIAL	FINISH
KEB	KEB WITH LOCK UNPLATED	KEB SHEET METAL	CRCA SHEET
		LOCK PORTION	BRASS
	KEB WITH LOCK PLATED	KEB SHEET METAL	CRCA SHEET
		LOCK PORTION	BRASS
	KEB (STAINLESS)	KEB SHEET METAL	STAINLESS STEEL
		LOCK PORTION	STAINLESS STEEL

DIMENSION DETAILS:

KEB TYPE-Z		
NO. OF FRONT LOCKS	DIMN.-A	DIMN.-B
2	200	175
3	260	235
4	320	295
5	380	355
6	440	415
7	500	475

Ordering Information:

MODEL	KEY ROTATION	CONTROL KEY	FRONT LOCK
KEB	CW / ACW	CODE	NO. OF FRONT KEYS & CODE

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300



Dust Cap : ILM-100



Example: KEB Z - P - N - C1-F4-CW-SS-0 is single row key exchange box, pin type, lock portion Brass Nickel plated, control lock=1No, front lock=4Nos, clockwise, stainless enclosure polished, without flip cap.

SOLENOID INTERLOCK TYPE ILR 0

The range of solenoid released interlocked switches, provides for single and multiple key release applications. The key is released when energized by operating the control push button or key. The control push button (key) is operated to initiate the entry cycle. The machine then

energizes the solenoid release when it is safe to enter and on removal of the access or secondary key(s) the machine power circuit is isolated. This unit is frequently used for the protection of robot cells, electrical enclosures etc. The ILRE is housed in polycarbonate or sheet steel enclosure and is provided with mounting holes on the rear side of the enclosure. ('P' for Pin type; 'F' for Figure type)



Pin Type | ILR-0 Type (P)

Operating Sequence:

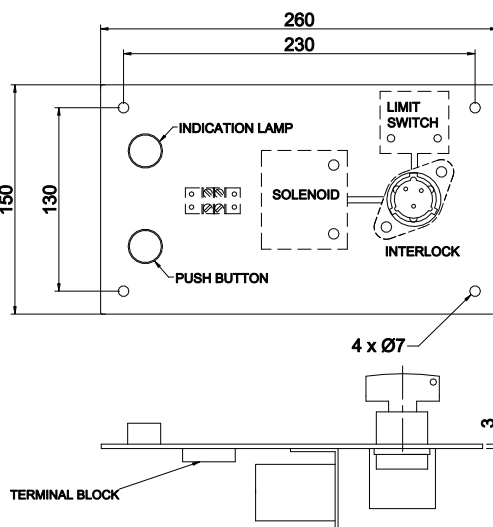
INDICATOR LAMP	KEY POSITION
ON (GLOW)	READY TO RELEASE THE KEY
OFF	NOT ABLE TO RELEASE THE KEY

Technical Specification:

MODEL	LOCK MATERIAL	FINISH	ENCLOSURE
ILR 0	BRASS	UNPLATED BRASS	CRCA PAINTED
ILR 0 N	BRASS	NICKEL PLATED	CRCA PAINTED
ISR 0	STAINLESS STEEL	MIRROR FINISH	STAINLESS STEEL MIRROR FINISH

Ordering Information:

MODEL	SWITCH CURRENT RATING	TYPE	NO. OF CONTACTS	VOLTAGE RATING	CURRENT TYPE
ILRO/ISRO	16 /20 A	P: PIN TYPE	4 / 6	24 /110 /220V	AC/DC



ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300

Dust Cap : ILM - 100

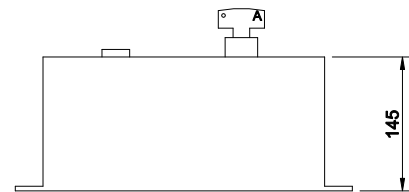
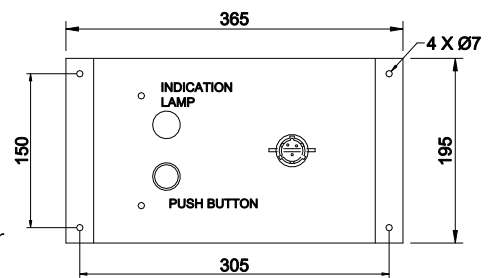
Example : ILRO - P – N – 16A- 4- 110V – DC - 0 : Solenoid Interlock without Enclosure, Pin type, Brass Nickel Plated, 16A/4NC,110VDC Solenoid , Without Flip Cap

SOLENOID INTERLOCK WITH POLYCARBONATE OR SHEET STEEL ENCLOSURE /TYPE ILRE



Pin Type | ILRE Type (P)

The range of solenoid released interlocked switches, provides for single and multiple key release applications. The key is released when energized by operating the control push button or key. The control push button (key) is operated to initiate the entry cycle. The machine then energizes the solenoid release when it is safe to enter and on removal of the access or secondary key(s) the machine power circuit is isolated. This unit is frequently used for the protection of robot cells, electrical enclosures etc. The ILRE is housed in polycarbonate or sheet steel enclosure and is provided with mounting holes on the rear side of the enclosure. ('P' for Pin type; 'F' for Figure type)



Operating Sequence:

INDICATOR LAMP	KEY POSITION
ON (GLOW)	READY TO RELEASE THE KEY
OFF	NOT ABLE TO RELEASE THE KEY

Technical Specification:

MODEL	LOCK MATERIAL	FINISH	ENCLOSURE
ILR E	BRASS	UNPLATED BRASS	CRCA PAINTED
ILR E N	BRASS	NICKEL PLATED	CRCA PAINTED
ISR E	STAINLESS STEEL	MIRROR FINISH	STAINLESS STEEL MIRROR FINISH

Ordering Information:

MODEL	SWITCH CURRENT RATING	NO. OF CONTACTS	TYPE	VOLTAGE RATING	CURRENT TYPE
ILRE/ ILREN/ ISR E	16/20A	4 / 6	P: PIN TYPE	24/110/220V	AC/DC

ASSOCIATED KEYS : ILK -100 , ILK-200 , ILK-300



Dust Cap : ILM - 100



Example : ILRE - P – N – 16A- 4- 24V – DC - 0 : Solenoid Interlock with Enclosure, Pin type, Brass Nickel Plated, 16A/2NO+2NC Contacts , 24V DC Solenoid , Without Flip Cap

TIMED DELAY INTERLOCK TYPE ILT

The ILT interlock is designed for use in such applications in which a delay is required before access can be gained, or secondary operations undertaken. Integral

isolation switches and an electronic time delay module are incorporated and the timer can be internally adjusted on installation within a specified range. Key in / key out and multiple key versions are available to suit any required configuration.

In certain applications the hazard is not removed immediately after power isolation.

Example: Large fly wheels continue to rotate after power isolation due to inertia, Capacitors discharge gradually after power isolation. ('P' for Pin type; 'F' for Figure type)



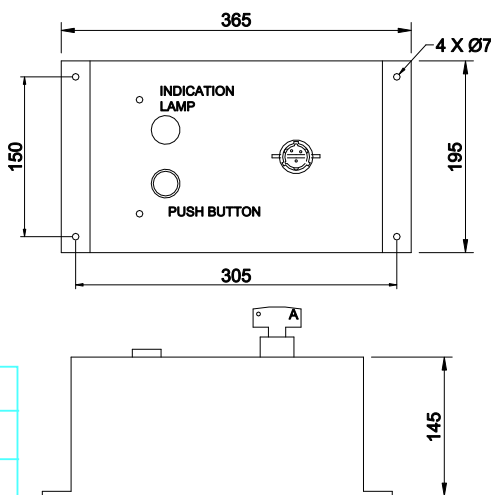
Pin Type | ILT Type (P)

Operating Sequence:

INDICATION LAMP	KEY POSITION
AFTER TIME DELAY, INDICATION LAMP ON (GLOW)	READY TO RELEASE THE KEY
OFF	NOT ABLE TO RELEASE THE KEY

Technical Specification:

MODEL	LOCK MATERIAL	FINISH	ENCLOSURE
ILT	BRASS	UNPLATED BRASS	CRCA PAINTED
ILT N	BRASS	NICKEL PLATED	CRCA PAINTED



Ordering Information:

MODEL	SWITCH CURRENT RATING	NO. OF CONTACTS	TYPE	VOLTAGE RATING	CURRENT TYPE	TIMER
ILT	16/20A	4 / 6	P:PIN TYPE	24 / 110 / 220 V	AC/DC	0 - 1 HOUR

ASSOCIATED KEYS : ILK -100, ILK-200 , ILK-300

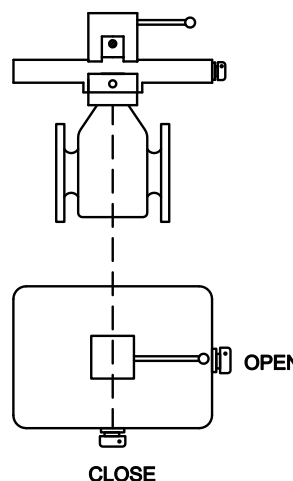
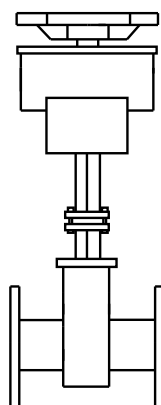
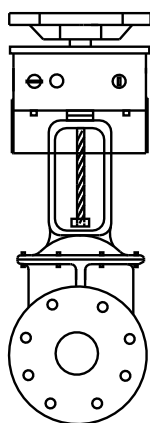


Dust Cap : ILM - 100



Example : ILT – P – N – 16A-4-220V-DC-0 : Time delay Interlock with Enclosure, Pin type, Brass Nickel Plated, 16A/4 Contacts (2NO+2NC) , 220V DC Solenoid , Without Flip Cap

VALVE INTERLOCKS



MULTI TURN VALVE INTERLOCK ILMT

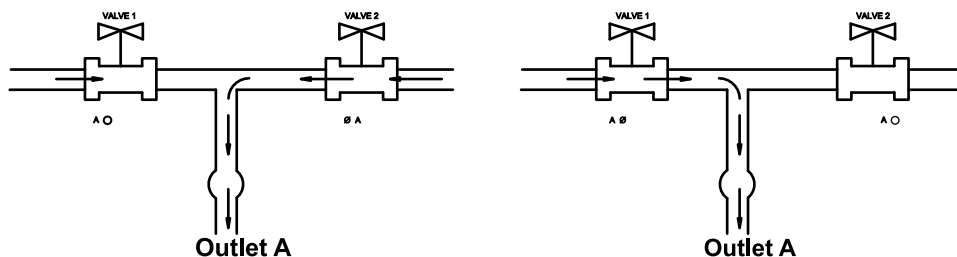
QUARTER TURN VALVE INTERLOCK ILQT

Safety of valves in process industry is vital. Unauthorised operation or operation in wrong sequence can lead to dangerous situations and loss of life and property.

Valve interlocks lock the valve in one or two positions (open and / or close). The key is trapped in the valve interlock, when locked in a position to prevent operation. Transfer of key in the unlocked state can be used to sequence the valve operation with other valves or to interlock the valve status with other equipment at site.

Valve interlocks have application in oil & gas, chemical industries, food and other process industries. In addition to conventional Multi Turn Valve Interlocks and Quarter Turn Locks, PSPC offers a wide range of Electrically operated interlocks with Time delay to control Electrically and pneumatically operated Valves.

Application:



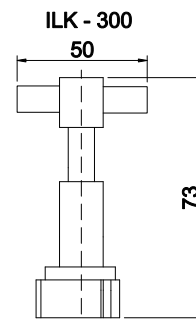
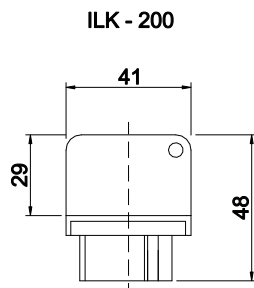
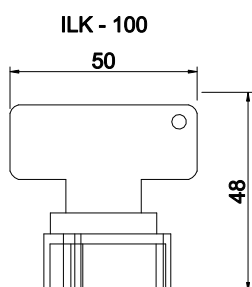
Consider an application as shown in the drawing. 2 distinct media need to flow into outlet A in tandem. When Valve 1 is open, the key is trapped in it. In order to Open Valve 2, Valve 1 has to be closed and the Interlock locked to release keyA which is transferred to Valve 2 to unlock and open.

For larger and more extensive systems, the valve can be locked in Open and Close positions.

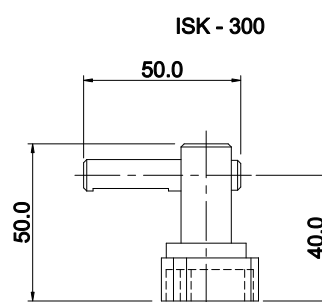
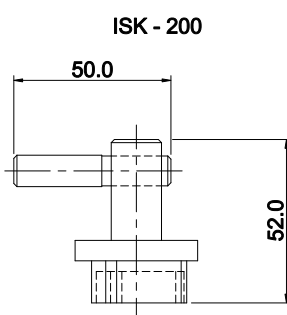
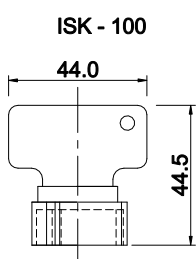
Key codes up to 4 alpha numeric combinations are available for large systems.

KEYS TYPE ILK/ ISK

ILK SERIES



ISK SERIES



PSPC trapped key interlock systems are controlled by the unique computer coded system codes used in the locks and keys and it is important these are defined correctly at the time of ordering. Choose between the styles shown for the interlocking I ## series that you are using.

MODEL	TYPE
I#K -100 P	STANDARD KEY
I#K -200 P	SEALED KEY
I#K -300	KEY WITH EXTENDED HANDLE

= L FOR BRASS

= S FOR STAINLESS STEEL

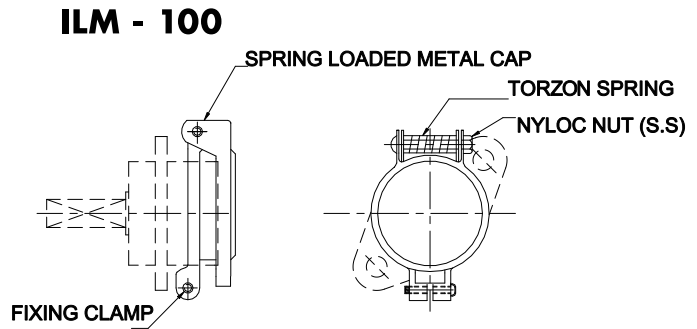
ADD SUFFIX N FOR NICKEL PLATED FOR BRASS OPTION



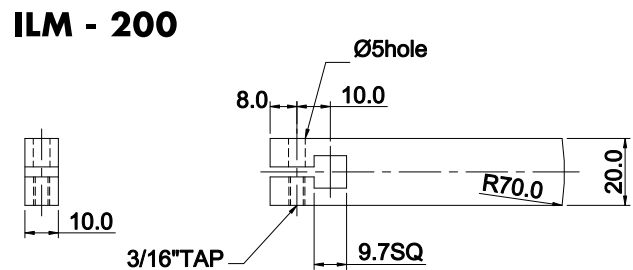
Technical Specification:

MODEL	MATERIAL	FINISH
ILK - 100 P / ILK - 200 P / ILK - 300 P	BRASS	UNPLATED BRASS
ILK - 100 N P / ILK - 200 N P / ILK - 300 N P	BRASS	NICKEL PLATED
ISK - 100 P / ISK - 200 P / ISK - 300 P	STAINLESS STEEL	MIRROR FINISH

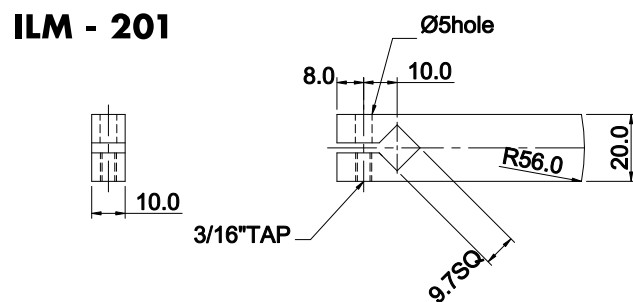
ACCESSORIES TYPE ILM



These robust yet easily fitted spring loaded brass dust caps prevent ingress of liquids, dust etc which may damage the integrity or ease of operation of the system.



A heavy duty 90 degree interlocking lever for use with all basic interlocks having a 9.5mm square rear shaft for engagement an associated switch mechanisms.



Similar to ILM - 200, this lever offers a 45° offset to the 9.5mm interlock shaft and facilitates more convenient installation on some mechanisms.

TECHNICAL SPECIFICATION:

MODEL	MATERIAL	FINISH
ILM	BRASS	NICKEL PLATED
ISM	STAINLESS STEEL	MIRROR FINISH

APPLICATION GUIDE FOR SOME STANDARD APPLICATIONS

1. Single Isolation/Single Access:

Application: Simple machine or enclosure which has one isolator and one access point

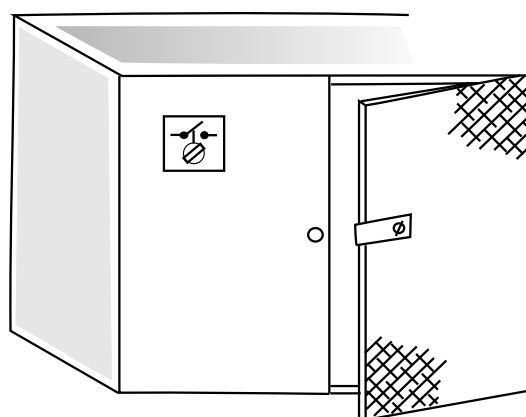
Operating Sequence:

- 1.1 Power ON, key A trapped in isolator, Guard locked closed
- 1.2 Power OFF, KEY A free, Guard locked closed
- 1.3 Power OFF/ Guard open, key A trapped in guard door.



- LOCK KEY FREE
- LOCK KEY TRAPPED
- ELECTRICAL ISOLATOR - POWER OFF
- DOOR OPEN
- DOOR CLOSED

**RECOMMENDED LOCK TYPES:
ILA, ILD/ ILH - 100**



2. Single Isolation/ Delayed Single Access:

Application: Machine with a run down time requirement or one which can not be stopped half way through the cycle

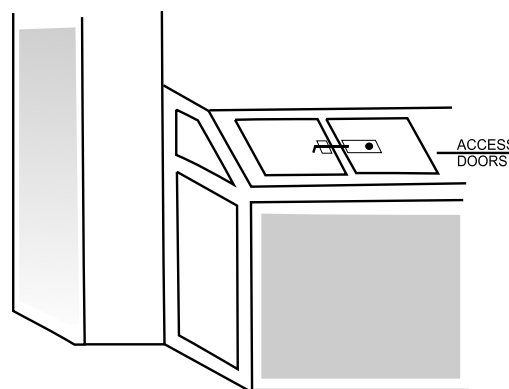
Operating Sequence:

- 2.1 Power ON, machine operating, key A trapped at machine power supply, Guard locked closed
- 2.2 Power OFF, machine stopping, key A trapped at machine supply, timer ON, Guard locked closed
- 2.3 Power OFF, machine stopped, key A free / Guard locked closed
- 2.4 Power OFF, machine stopped / Guard open, key A trapped in guard door.



- POWER 'ON'
- TIMER

**RECOMMENDED LOCK TYPES:
ILT, ILD/ ILH - 100**

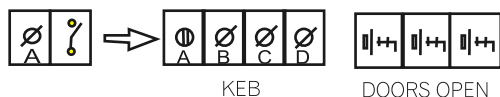


3. Single Isolation/Multiple Access:

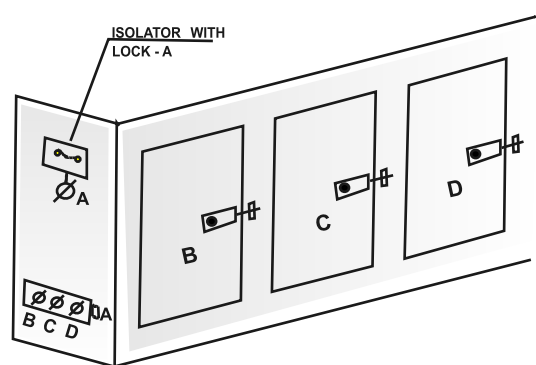
Application: Machine which has more than one access point, Eg : Electrostatic Precipitators.

Operating Sequence:

- 3.1 Power ON, Key A trapped in Main source of supply, access Keys B,C & D trapped in Key Exchange/guards locked closed.
- 3.2 Power OFF Key A free, Access Keys B,C & D trapped in key Exchange/Guards locked closed.
- 3.3 Power OFF / Control Key A trapped in Key Exchange access Keys B, C & D released/Guards locked closed.
- 3.4 Power OFF / Control Key A trapped in Key Exchange Guards open, access Keys B, C & D trapped in guard doors.



RECOMMENDED LOCK TYPES:
ILE , ILD / ILH – 100, ILS-100, ILG-100

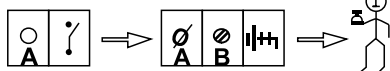


4. Single Isolation/Interactive Access:

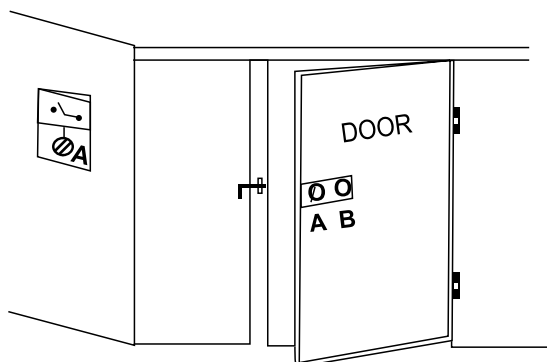
Application: Machine where there is a danger of personnel being trapped inside the machine.

Operating Sequence:

- 4.1 Power ON, Key A trapped in Main source of supply Guard locked closed, personnel Key B trapped in guard door
- 4.2 Power OFF, Key A free, Guard locked closed, personnel Key B trapped in guard door
- 4.3 Power OFF/ Key A trapped, guard released, personnel Key B trapped in guard door
- 4.4 Power OFF/ Key a trapped, guard open, personnel key B free



RECOMMENDED LOCK TYPES:
ILE, ILH – 200, ILG-200

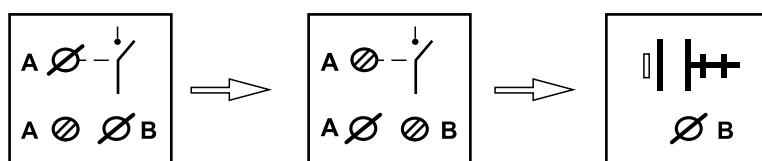


5. Multiple Sequential Isolation/Single Access:

Application: Machine that requires a sequential action to ensure isolation - Power OFF Earth Switch ON, Guard open.

Operating Sequence:

- 5.1 Power ON, Key A trapped in Switch gear, Earth Switch OPEN. Access Key B trapped at earth switch / Guard locked closed.
- 5.2 Power OFF, Key A released / Earth Switch OPEN. Access Keys B trapped / Guard locked closed.
- 5.3 Power OFF, Key A trapped in Earth Switch, Earth Switch CLOSED, Key B free / guard locked closed.
- 5.4 Power OFF / Key A trapped Earth Switch CLOSED / Guard open, Key B trapped in guard.



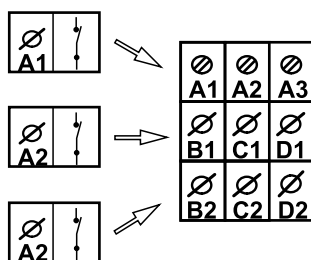
RECOMMENDED LOCK TYPES : ILA, ILA- 200, ILD/ ILH - 100

6. Multiple Isolation/ Multiple Access:

Application: Machine which has a number of power sources and many access points:

Operating Sequence:

- 6.1 Power ON, Keys A1, A2, A3 trapped at Power supply /Access Keys B1, B2,C1,C2, D1, D2 trapped in Key Exchange/Guards locked closed.
- 6.2 Power OFF, Keys A1, A2, A3 free / Access Keys B1, B2,C1,C2, D1,D2 trapped in Key Exchange/Guards locked closed.
- 6.3 Power OFF / Control Keys A1, A2,A3 trapped in Key Exchange, access Keys B1, B2,C1,C2, D1,D2 free/Guards locked closed.
- 6.4 Power OFF / Control Keys A1, A2,A3 trapped in key Exchange, Guards open, Keys B1, B2,C1,C2, D1, D2 trapped in respective guard doors.



RECOMMENDED LOCK TYPES:
ILE, ILX - *, ILD/ ILH - 100**

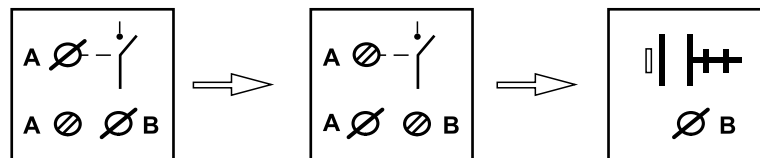
—————> B1, B2, C1, C2, D1, D2
KEYS TRAPPED IN GUARD DOOR LOCKS

7. Power Isolation/ Delayed Access:

Application: Multiple operation programmable Robot Controlled Machines with Guards.

Operating Sequence:

- 7.1 Power ON, Key A trapped at Power supply / Guard locked closed, Key B trapped in inter active control box- Machine /Robot in normal operation mode.
- 7.2 At end of cycle, Switch Power off, Key A free.
Insert key A in interactive control Box & Trap Key A.
- 7.3 Key A trapped in interactive control box
Key B released after end of cycle or preset time delay.
- 7.4 Release Key-B Insert in Guard lock & trap.
- 7.5 Key-B Trapped in Guard Door Lock. Guard open.



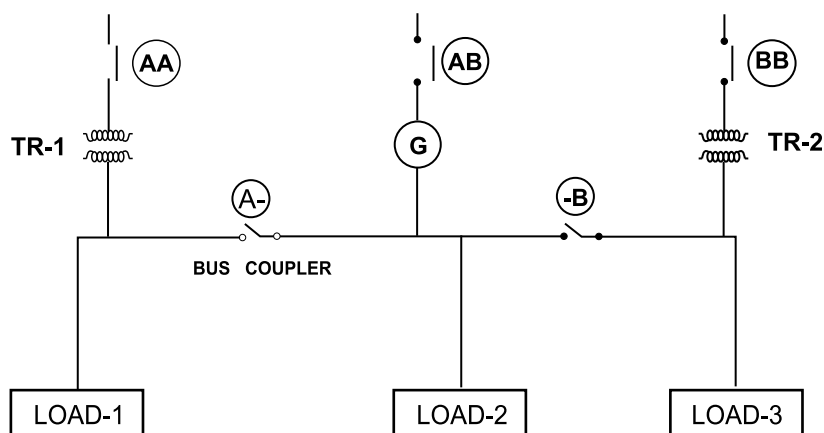
RECOMMENDED LOCK TYPES : ILT, ILD / ILH - 100

8. Locks for Electrical Distribution System.

Three Sources of supply feeding 3 separate loads

Application: Supplies are not to be paralleled at any time.
Each source must be able to supply any two loads, if required

Conditions: Key AA will operate locks AA or A - only.
Key BB will operate locks BB or - B only,
Key AA will operate A-, -B or AB



RECOMMENDED LOCK TYPES : ILA, ILB WITH SUITABLE ACCESSORIES

SAFETY INTERLOCKING SYSTEMS

