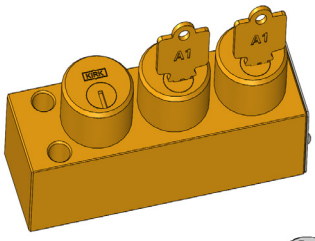
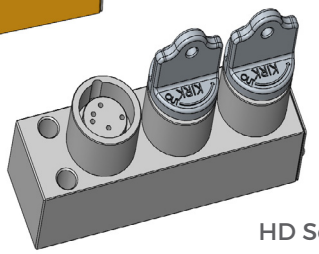
Type T Transfer Interlock



SD Series



HD Series

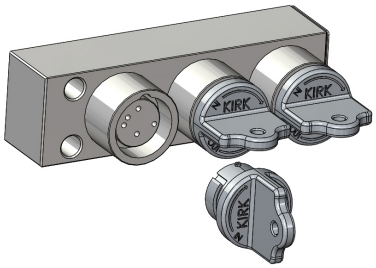
KIRK Type T transfer interlock is an assembly of two or more lock cylinders in a single housing. The Type T transfer interlock is designed to retain one or more key(s), trapped key(s) or secondary key(s), while the remaining keys, initiating key(s) or primary key(s), are removed. This allows for the exchange of two or more interlocks within an interlock sequence.

OPERATION

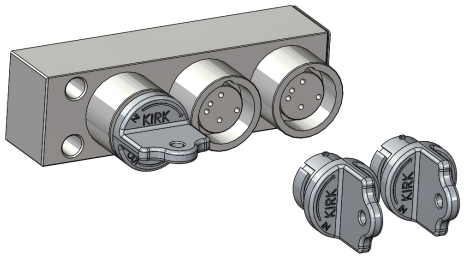
KIRK Type T transfer interlocks are typically used in the transfer process between the isolation of power source(s), such as breakers, T/R switches, or level detectors to multiple access doors.

Type T key operated mechanical transfer interlock

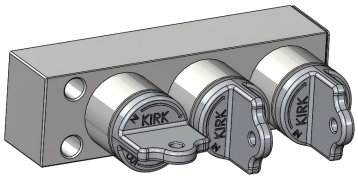
1 **A pre-determined number of keys are trapped, awaiting the introduction of the primary keys in the interlock process.**



2 **Insert the primary keys into the Type T, turn the keys, releasing the secondary keys that had been trapped in the Type T.**



3 **The primary keys are now trapped, and the secondary keys can move to the next sequential step in the process.**



For HD multiple cylinder interlocks, all missing keys must be inserted and turned before any trapped keys can be released.

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Type T Transfer Interlock

USAGE

A KIRK Type T transfer interlock is a group of primary and secondary keys involved in a transfer process. All primary keys must be inserted in the Type T and turned before any secondary key can be released.

KIRK recommends that any transfer process requiring more than 7 keys implement a KIRK Transfer Panel due to the size and complexity of the process.

No hazardous substances were used in the manufacturing of the product. The product can be disposed of in standard waste receptacles.

INSTALLATION

The KIRK Type T interlock is generally flat, or face mounted from the front of the housing. The installed location of the Type T should be relative to the sequence of the interlock system and the defined sequence of operations. Proper installation of key interlocks is a critical element of a key interlock system. After installation of the interlocks, the complete interlock system should be tested sequentially by person(s) familiar with the entire system, the key sequence, and its intended purpose. Any problems or discrepancies must be corrected prior to energization.

SD series (brass) interlocks are supplied with a key in each cylinder. These keys are needed during installation of the interlocks. SD series (brass) bolt interlocks with multiple cylinders require the insertion of all keys before the lock bolt can be extended or withdrawn. Do not try to force a multiple cylinder interlock that does not have the correct keys fully inserted in every cylinder!

HD series (stainless steel) interlocks are not sold with keys. Keys must be ordered separately and may be required during the installation process.

For all interlock systems to maintain system integrity, additional keys must be removed from the system and destroyed or retained by a responsible person. There should only be enough keys to operate the interlock system sequentially. Kirk Key Interlock Company will not be responsible for extra keys left in the interlock system.

All interlocks and interlock systems must be installed by a competent and qualified person who has read and understood these instructions. Please retain this document in your technical files.

MAINTENANCE

Kirk key interlocks should be periodically lubricated with a small amount of dry powder graphite. DO NOT use oil or grease of any type as these will collect dirt and impede the proper operation of the lock cylinder.

SD SERIES: Apply a small amount of graphite to the key and insert the key into the lock cylinder. Work the key in an out and turn the key several times in order to distribute the graphite inside the lock cylinder.

HD SERIES: Apply a small amount of graphite behind the inner turn shaft. Insert and turn the key a few times in order to distribute the graphite below the lock cylinder.

KIRK offers a Graphite Lubrication kit (part# GL-1) complete with instructions for use.

Protective covers for most products are also available as accessories. Covers can be utilized to protect the lock cylinders when located outdoors or in a demanding environment.

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Type T Transfer Interlock

TECHNICAL DATA

Type T	SD Series	HD Series
Interlock Housing	Brass	Electropolised 316 SS
Cylinder Housing	Brass	Electropolised 316 SS
Plug/Inner Turn Shaft	Brass	Electropolised 316 SS
Key Material	Nickel-Silver	Electropolised 316 SS
Key Style	7-Pin Tumbler	Dowel Pin
Type of Mounting	"Surface mounted using suitable fasteners. Refer to drawing for details."	
Temperature Ratings	-65F to +250F	-65F to +700F
Weight	4.40 pounds	4.16 pounds

* Weight based on product with 3 cylinders, 0" bolt length, no key, accessories, or mounting hardware

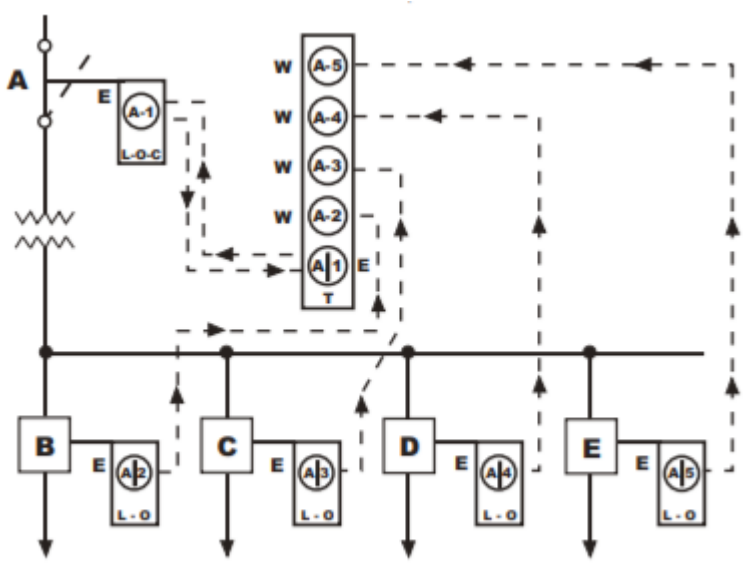
APPLICATION

The Type T interlocks are used as part of a safety systems suitable for the transfer of keys between sequential interlocks within a safety interlock system.

The interlock application scheme 6 from the KIRK scheme book is to prevent the operation of switch A when multiple breakers B, C, D, And E are closed. The breakers may be opened in any sequence.

Initial system status: Power is on and Breakers B, C, D, and E are closed. Switch A L-O is in the closed position. Key A-1 is held in Type T transfer interlock and keys A-2, A-3, A-4, and A-5 are trapped in Breakers B, C, D, and E.

To begin operation, open Breakers B, C, D, and E and turn respective keys, extending bolts on isolation interlocks, acting as physical barriers to the breakers. This releases all keys and locks open the respective breakers. Keys A-2, A-3, A-4, and A-5 can now be inserted into Type T transfer interlock and turned. This will turn key A-1 and allow for release of the key. Key A-1 can be inserted into bolt interlock on Switch A, turn key, withdrawing bolt and allowing power to be restored.

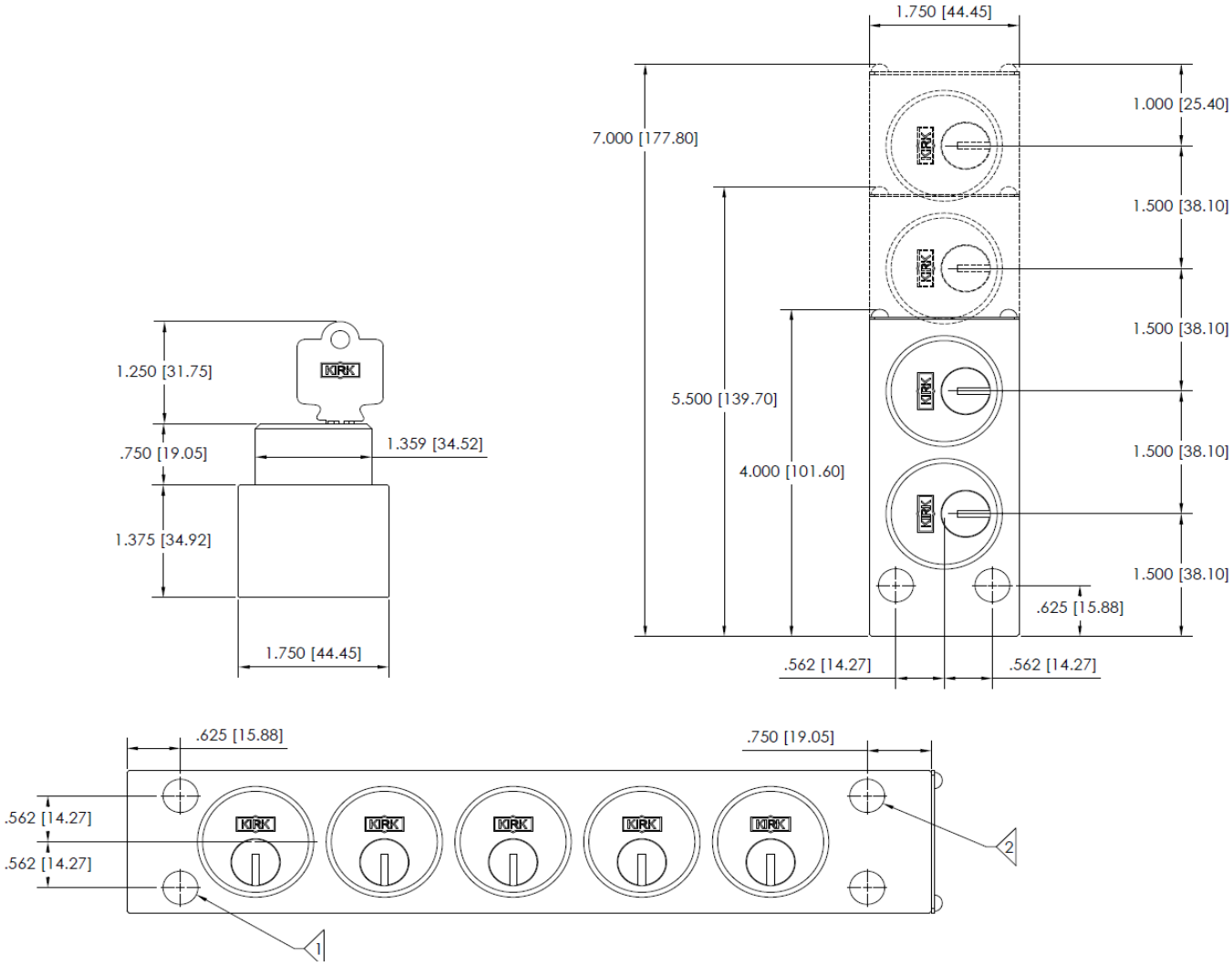


Type T Transfer Interlock

DRAWING

Dimensions: in inches

SD Series Type T



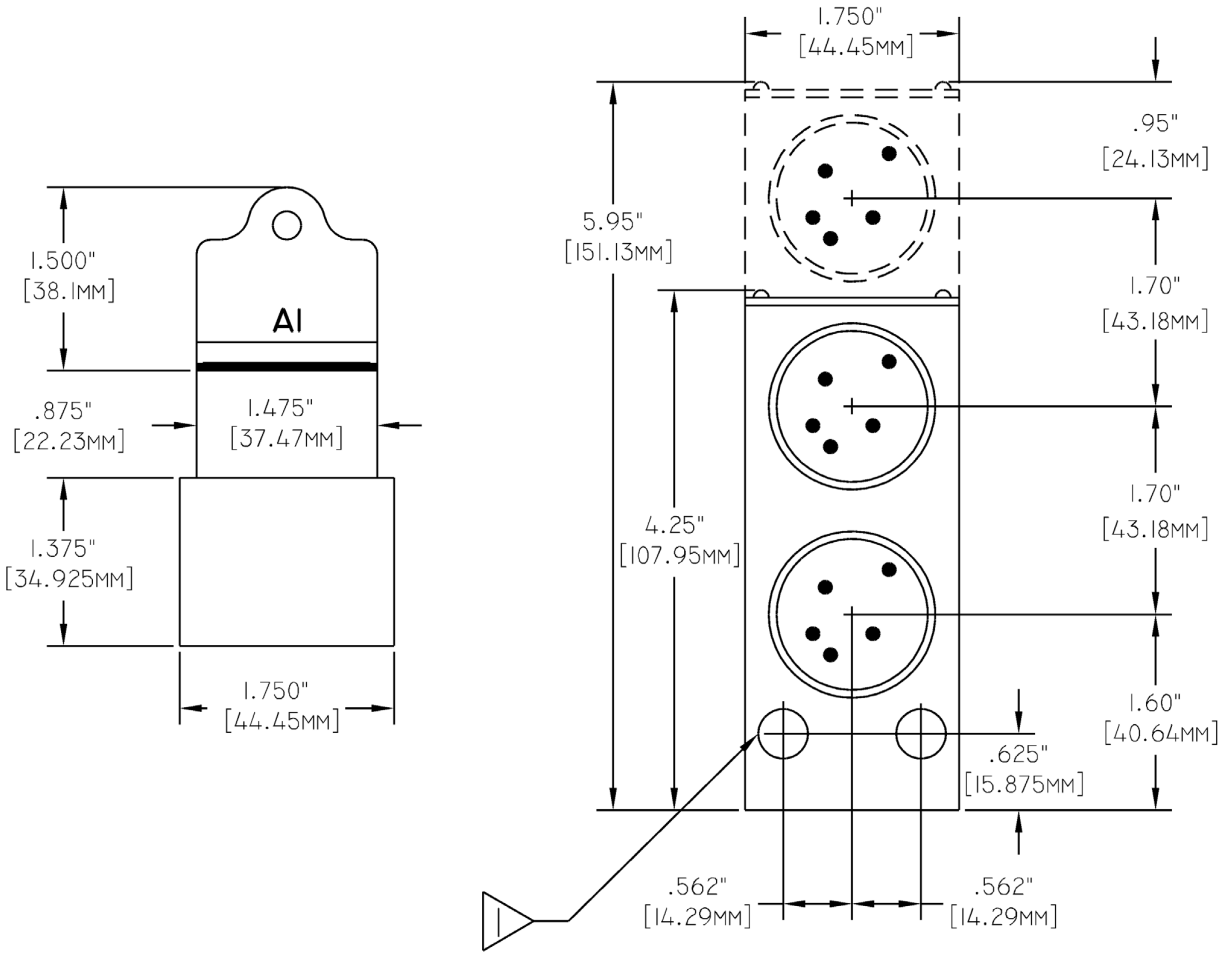
NOTES:
1) .406" (10.32mm) holes for bolts (2 holes).
2) Mounting holes for locks with 5 or more cylinders. Type T blocks with five or more cylinders will have mounting holes at each end of the block. The rear mounting holes are 7.50 (19.05mm) from the end. The total length of the five cylinder Type T transfer block is 9.500" (241.3mm). Add 1.500" (38.1mm) for every additional cylinder.

Type T Transfer Interlock

DRAWING

Dimensions: in inches

HD Series Type T



NOTES:
1) 0.4062" (10.32mm) holes for mounting bolts (2 holes).

Type T Transfer Interlock

ORDER INFORMATION

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Part number		T	R		–	–	–							–	

1	**Series**	**K = SD Series (brass)**					**S = HD Series (stainless)**			
4	**Auxiliary Switch**	0 = none 1 = K DP/DT 3 = S	4 = SS 5 = SSS 6 = SSSS	A = 2 N/O 1 N/C B = 4 N/O 2 N/C			Multi-cylinder HD series standard switch options are only available with 1 - 'E' sequence configuration. For other configurations, please consult our sales team.			
8, 9	**Cylinder(s)**	**SD Series** - max cylinders 7					**HD Series** - max cylinders 7			
		1	**0**	= E 1 CYL	**NOTE:** Use numbering logic for up to 7 cylinders		**1**	**0**	= E 1 CYL	**NOTE:** Use numbering logic for up to 7 cylinders
		1	**1**	= W 1 CYL			**1**	**1**	= W 1 CYL	
		2	**0**	= EE 2 CYL			**2**	**0**	= EE 2 CYL	
		2	**1**	= EW 2 CYL			**2**	**1**	= WE 2 CYL	
		3	**0**	= EEE 3 CYL			**3**	**0**	= EEE 3 CYL	
		3	**1**	= EEW 3 CYL			**3**	**1**	= WEE 3 CYL	
		3	**2**	= EWW 3 CYL			**3**	**2**	= WWE 3 CYL	
		For interlock transfer applications requiring more than 7 key tranfers, KIRK recommends moving into a Transfer Panel. Please consult our sales team for more information.								
10	**Stamp Key Interchange**	– = No **S** = Yes					Stamp Key interchange only available for HD series when protective Flip Open Cover is added			
11	**Opposite Hand**	– = No	**H** = Opposite Hand				Opposite hand not avaible for HD Series			
12	**Protective Covers** see protective covers data sheet	– = No	**C** = Push On	**F** = Flip Open			– = No	**F** = Flip Open with LOTO provision		
13	**Mounting Bolts** see mounting bolt data sheet	– = No	**M** = Hex	**T** = Tamperproof						
15	**Reverse**	**R** = Reverse switch housing relationship								

CONTACT INFORMATION

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