

The DMSK is a robust, single lock interlock intended for hygienic areas and suitable for use on all types of doors. The DMSK comprises two parts, a lock body and an actuator. The actuator is available in multiple variants to cater for a wide variety of applications.

Part of an interlock system, the locks are used to control access to enclosed areas until a safe condition has been achieved.

DMSK is available with a choice of multiple actuators; the most common options include:

DM-F - a fixed actuator that is supplied as standard.

DM-S - a self aligning actuator available as an optional extra.

DM-H - a hand operated actuator available as an optional extra.

DMSK is only to be surface mounted. DMSK is available with a choice of CLS or MLS lock mechanisms. All CLS / MLS locks are supplied with stainless steel spring loaded dustcovers as standard.

IMPORTANT: This product is designed for use according to the installation and operating instructions enclosed. It must be installed by competent and qualified personnel who have read and understood the whole of this document prior to commencing installation. Any modification to or deviation from these instructions invalidates all warranties. Fortress Interlocks Ltd accepts no liability whatsoever for any situation arising from misuse or misapplication of this product.

IF YOU HAVE ANY QUESTIONS OR QUERIES OF ANY NATURE WHATSOEVER PLEASE CONTACT THE SUPPLIER WHO WILL BE PLEASED TO ADVISE AND ASSIST.

Construction DMSK

Body Housing:	Stainless steel
Head Housing:	Stainless steel
Internals:	Stainless steel
Actuators:	Stainless steel
Lock Mechanisms:	
CLS/MLS	Stainless steel
Key:	Stainless steel

Tools and Fixings Required

2 off Cap head bolts for each module.

Front of Board mounting:
M6 x 30 or 1/4" x 1 1/4"
Suitable for driver for above.

If using through holes:
1 off Drill Ø6.5 (or Ø5/16").
2 off M6 (or 1/4") full nuts per module.

If using threaded holes:
1 off Drill Ø5 (or pilot drill for chosen 1/4" thread).
1 off M6 (or 1/4") tap and wrench.

Mounting

Mount this unit well away from sources of vibration or use anti-vibration mountings in order to avoid the effects of vibration, shock and bump. Use loctite to secure fixings.

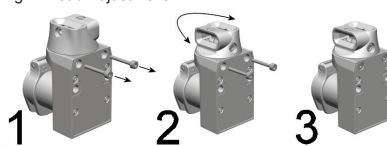
Mount the unit only in its correctly assembled condition to flat steel plate of minimum thickness 3.0mm or 6.0mm if aluminium.

The actuator can be inserted into the head via the top or side entry. The head can be turned in 90 degree increments to suit a variety of mounting and handing configurations.

To rotate the head through 90 degree increments (see Fig 1 - Head Adjustment):

1. Remove the two head adjustment screws.
2. Rotate the head to the desired position.
3. Refit the two head adjustment screws.

Fig. 1 Head Adjustment



DMSK can be mounted in any orientation observing the following rules:

1. Locate the unit so that the lock is within easy reach.
2. Choose the correct mounting configuration for the size and type of door.
3. Mount the unit to the panel using the chosen fixings.
4. Tighten the fixings to a torque of 8 to 10Nm (5.9 to 7.4 lbf.ft).
5. All fixing screws must be permanently prevented from removal, either by vibration or by personnel using standard tools.

All fixings must be used.

Standard Functionality

The key is inserted into the lock and turned while the actuator is trapped in the head. The actuator is released allowing the door to be opened. The key remains trapped until the door is closed and the actuator is re-engaged.

The DMSK sequence should have been specified at the purchasing stage. If the sequence needs to be changed, contact Fortress Interlocks.

Replacing a DM1 / DMS1 for a DMSK

The key dimensions between the head, lock and mounting holes are the same on the DM1, DMS1 and DMSK. This allows any one of the units to be substituted for another, environment permitting.

Commissioning Mechanical Function Test

Assuming Standard Sequencing:

1. Start with the key removed and the gate closed and locked.
2. Ensure the gate is securely locked.
3. Insert the key and rotate 120° clockwise.
4. The gate should now be unlocked and free to open. Once the gate is open ensure the key remains trapped in the lock.
5. Close the gate, rotate the key 120° anti-clockwise and remove.
6. Again ensure the gate is securely locked.

Service and Inspection

Regular weekly inspection of the following is necessary to ensure trouble-free, lasting operation:

1. Secure mounting of components.
2. Debris and wear.

If lubrication/cleaning is required use WD40.

DO NOT USE DRY LUBRICANT.

The frequency of lubrication/cleaning will depend on the environment. Lubricate/clean at least once a week when used in the concrete industry. In extreme cases of dust / particle build up flush out the mechanism with WD40. In the case of unhardened cement dust pre-lubrication with or even immersion in, concrete release agent / diesel oil should be sufficient.

There are no user serviceable parts in a DMSK module. If damage or wear is found, the whole module must be replaced.

Disposal

The DMSK, excluding seals, is fully stainless steel and should be recycled via local facilities. The seals do not contain any certified hazardous materials so should be disposed of as industrial waste.

Liability coverage is voided under the following conditions:

1. If these instructions are not followed.
2. Non-compliance with safety regulations.
3. Installation not performed by authorised personnel.
4. Non-implementation of functional checks.

2D General Drawing for the DMSK product

