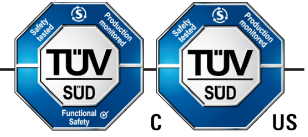


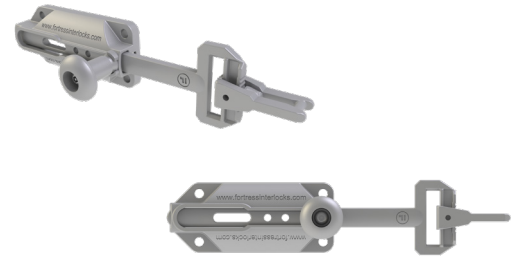
Operating Instructions: S40 Slidebar Actuator



Description

The S40 Slidebar Actuator can be used with Fortress' modular amGardS40 range, incorporating an S40S6 Slimline Head. The S40 Slidebar is particularly useful for applications using small radius, hinged doors (250mm minimum) but can also be used on sliding doors. The S40 Slidebar features a built in lock-out facility to accommodate a maximum of 4 padlocks with up to 8mm diameter shackles.

The S40 Slidebar is available in two variants: Spring Loaded and with an Internal Lever - see functionality below. Both are constructed from Stainless Steel castings and feature built-in lock-outs.



Options & Ordering Information

Description	Spring	Int. Handle	Int. Handle allows locking on inside	Handing	Part No.
Slidebar		✓		Left	S40SI2
Slidebar		✓		Right	S40SI4
Slidebar				Left	S40SN2
Slidebar				Right	S40SN4
Slidebar	✓			Left	S40SS2
Slidebar	✓			Right	S40SS4
Slidebar			✓	Left	S40SF2
Slidebar			✓	Right	S40SF4

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. If the equipment is used in a manner not specified by the manufacturer the protection provided by the equipment may be impaired. 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 mis-application of this product.

Note: The availability of spare Actuators and Keys makes it possible to easily bypass the safety devices and, for this reason, the security of any spare Actuators and Keys must be effectively monitored. Where applicable, the same also applies for Keys used for resetting after an Escape Release or Manual Override.

IF YOU HAVE ANY QUESTIONS OR QUERIES OF ANY NATURE WHATSOEVER PLEASE CONTACT THE SUPPLIER

WHO WILL BE PLEASED TO ADVISE AND ASSIST.

amGardS40 Slidebar Actuator Technical Specification

Housing Materials	Stainless Steel to BS3146
Colour	Stainless Steel
Operating Force (spring loaded)	12N
Retention Force (locked)	5,000N**
Mechanical Life	1,000,000 Switching Cycles
Performance Level	PLe
B10d	5,000,000
Ambient Temperature	-20°C to 80°C (-4°F to 176°F)*
Max. Altitude	2000m
Maximum Relative Humidity	80%@<=31°C 50%@40°C
Environment	Indoor & Outdoor

*The units will only continue to work below freezing point (0°C) where it can be guaranteed that ice will not form on or in the unit; as it will cause the mechanical parts to bind and jam.

**Destructive test of GS-ET-19, 5.18 exceeded 10,000N.

Operating Instructions: S40 Slidebar Actuator

amGardS40 Slidebar Actuator Safety Functions		Part No.		
Safety Function 1	Provides link from interlock to door	S40SI / S40SF	S40SN	S40SS
Safety Function 2	Internal handle allows escape			

Functionality

Spring Loaded Slidebars

The spring loaded slidebar is intended to be operated from outside the guarded area. When the machine is in operation the guard is closed and the slidebar is extended so that the tongue is in the auto head.

To gain access retract the slidebar by pulling the knob against the pressure of the spring until the knob drops into the wider slot. Padlocks may be fitted to the holes in the end of the slidebar to provide a lock-out facility. The slidebar is then held in the retracted position.

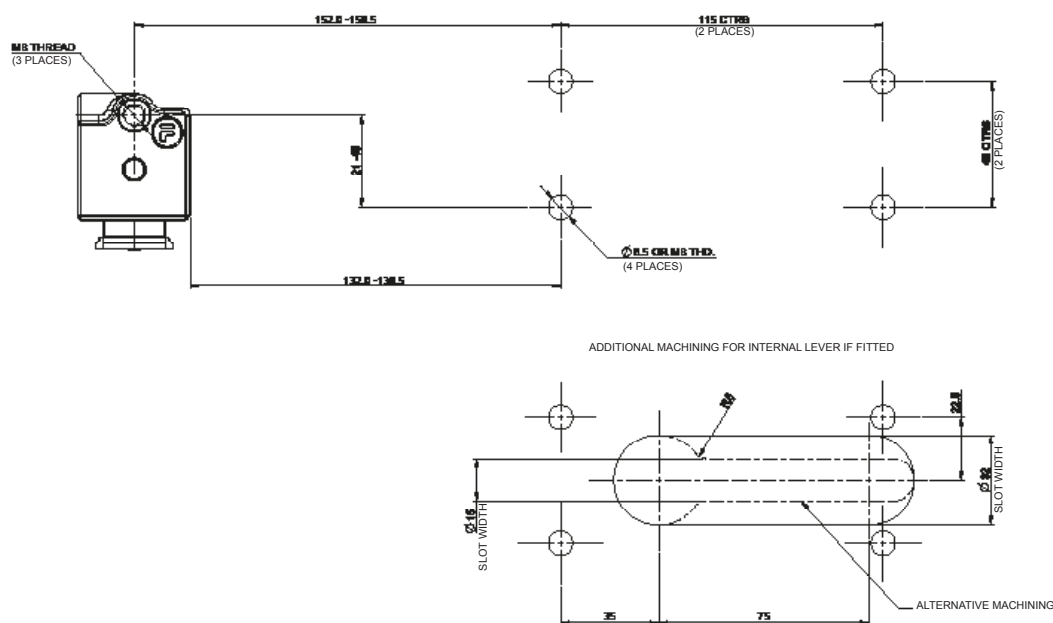
To restart the machine

Lift the knobcasting and drive the slidebar towards the S40 AT Slimline head so that the tongue can re-enter.

Internal Lever Slidebars

The internal lever of the S40 SI or S40 SF slidebars can be operated from inside the guarded area but must only be used with an S40 AT Head and S40 Stop without any safety or access key adaptors (EK/SK/AK) or with an S40 AT Head and IR escape release adaptor.

Figure 1: Dimensional Drawing -



Operating Instructions: S40 Slidebar Actuator

Figure 2: Dimensional Drawing - S40SN / S40SS

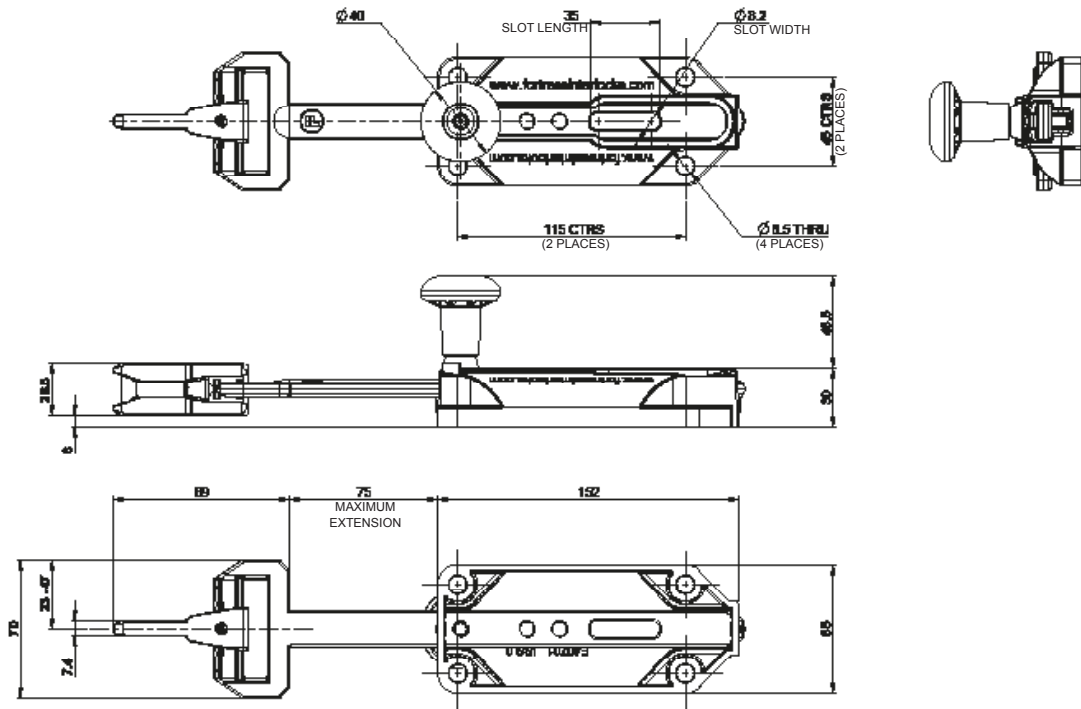
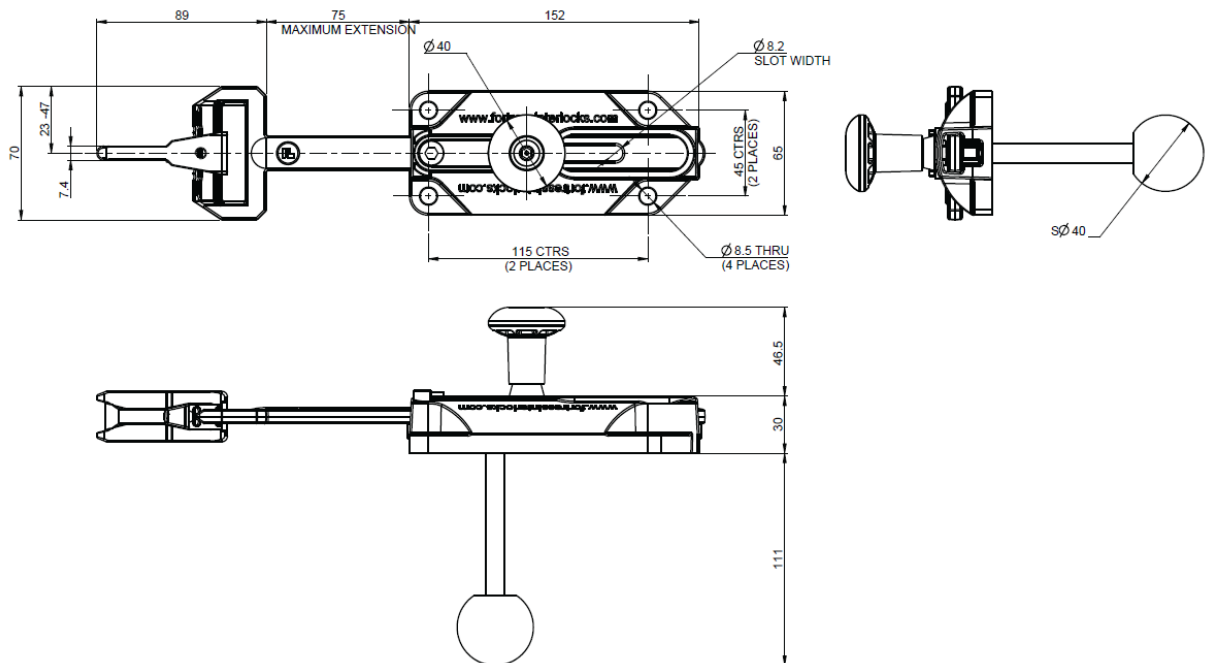


Figure 3: Dimensional Drawing - S40SI



Operating Instructions: S40 Slidebar Actuator

Tools and Fixings Required (for Slidebar mounting only)

- M8 Tap or Ø 8.5 Drill
- 2 x M8 screws
(Screws must be suitable length for a minimum of 6mm thread engagement if mounting to a threaded panel, or a suitable length to ensure full engagement with M8 Nut if mounted through a panel. Required screw type and class; A2 70. Required torque setting; 4-6 Nm.)
- 2 x M8 Nuts (optional)
- 2 x M8 Washers

Required Torque Settings

If removed during mounting, re-orientation or electrical wiring, all supplied fixing screws of the complete Guard Interlocking Device must be refitted using the following torque settings;

- M3 Screws – 0.8-1.0 Nm.
- M4 Screws – 2-4 Nm.
- M5 Screws – 2-4 Nm.
- M8 Screws (required for device mounting but not supplied) – 4-6 Nm.

Mounting

1. Mount the complete Guard Interlocking Device only in its correctly assembled condition.
2. Locate the Slidebar so that it is within easy reach.
3. The Slidebar must be fitted to a flat metal panel, of minimum thickness 6mm, permanently attached to the guard.
4. Machine the panel using the dimensions from figure 1.
5. Mount the Slidebar to the panel using the 4 M8 screws nuts and washers, as applicable.
6. All fixing screws used to mount the complete Guard Locking Device must be permanently prevented from removal, either by vibration or by personnel using standard tools. If mounting fixings are visible, they must be secured against manipulation and un-authorized or un-identifiable removal. In these cases, a middle strength adhesive screwlocker is required.
7. The installation and operation of the complete Guard Interlocking Device must take into account the requirements of EN ISO 14119; in particular Section 7 – Design for minimising defeat possibilities.
8. The complete Guard Interlocking Device must not be used as a mechanical stop. Where applicable, precautions must be made to ensure the door or gate of any guarded area has sufficient support and stops to prevent the impact on the Guard Interlocking Device.
9. The complete Guard Interlocking Device must be mounted in the correctly assembled condition so that the Escape Release action is only possible from within the guarded area (danger zone).
If any locking device is used (e.g. key adaptors EK/SK/AK or a solenoid LOK unit) then the escape release function of a Push IR must first be activated before the internal lever can be operated.
In an escape release, the internal lever should be moved as far as it will go.

Testing

The complete guard installation must be tested against the requirements of the host unit. Refer to the S40 AT Head, Stop/ LOK installation instructions. Make sure that the gap around the perimeter of the guard, when closed (Safety Circuits closed), does not exceed the limits specified in EN294 and EN953.

Service and Inspection

There are no user serviceable parts in this unit. If damage or wear is found the whole unit must be replaced.

Disposal

The S40 Slidebar does not contain any certified hazardous materials so should be disposed of as industrial waste. All stainless steel can be recycled.

Liability Coverage is Voided Under the Following Conditions:

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

The manufacturer reserves the right to modify the design at any time and without notice.

This guide should be retained for future reference.