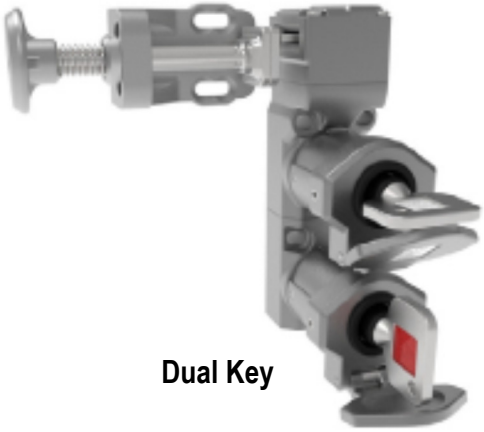
Single Key



Dual Key

Operating Principle – Single Key:

The single key interlock is used as part of a trapped key interlock system to ensure that a guard or door is locked closed under normal operating conditions and can only be operated when a key from either the isolator or key exchange block is inserted into the interlock device.
Once the key has been inserted and turned then the actuator can then be released and the guard or door opened, enabling access into the guarded area. Whilst the actuator is released the key cannot be removed from the interlock and returned to either the key exchange block or isolator.
Only when the actuator is re-inserted into the interlock, can the key be turned and released allowing it to be returned to the key exchange block or isolator and power restored to the application.

Operating Principle – Dual Key:

The dual key interlock has two operating keys and is used as part of a trapped key interlock system to ensure that a guard or door is locked closed under normal operating conditions and can only be operated when a key from either the isolator or key exchange block is inserted into the interlock device.
Once the first key has been inserted and turned then the second key can be released, as well as the actuator. This enables the guard or door to be opened allowing access into the guarded area. The operator can take the second key into the guarded area and it may be used to facilitate a further interlock requirement (e.g. machine jog/teach) or it can be retained by the operator to ensure that the interlock sequence may not be reversed.
Only when the second key is returned to the dual key interlock and the actuator re-inserted can the first key be removed ensuring the door or guard is locked closed. The first key may then be returned to the key exchange block or isolator and power restored to the application.

TECHNICAL SPECIFICATIONS:

Body Material: Stainless steel or die cast
Operating Temperature: -25C. to +60C.
Holding Force: 3000N. (F1max.) 2307N. (Fzh)
Mechanical Life (B10d) : 1,000,000 cycles

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Trapped Key Tongue Interlocks – Types: SS-HT-S-L M-HT-S-L

SS-HT-D-L-11 M-HT-D-L-11

SS-HT-S-R M-HT-S-R

SS-HT-D-R-11 M-HT-D-R-11

READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE INSTALLING, OPERATING, OR MAINTAINING THIS EQUIPMENT.

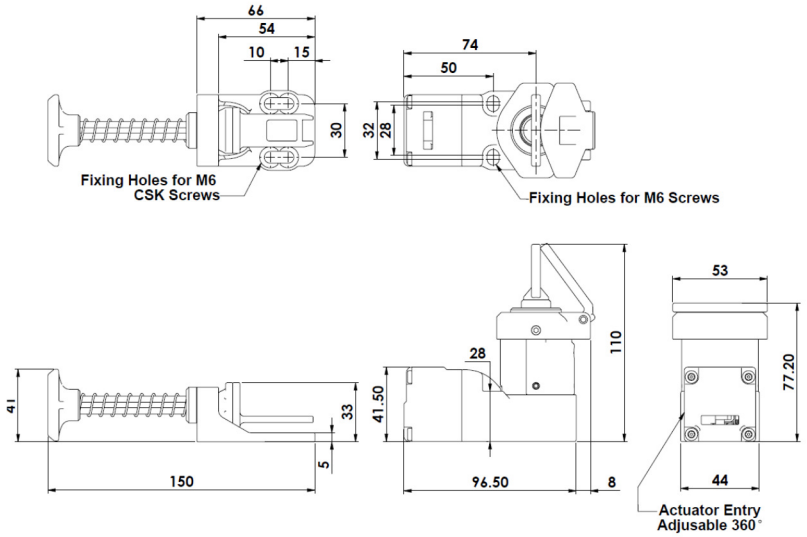
The product is designed to be a component of a customized safety oriented control system. It is the responsibility of the user to ensure the correct overall functionality of its systems and machines. IDEM, its subsidiaries and affiliates, are not in a position to guarantee all of the characteristics of a given system or product not designed by IDEM.

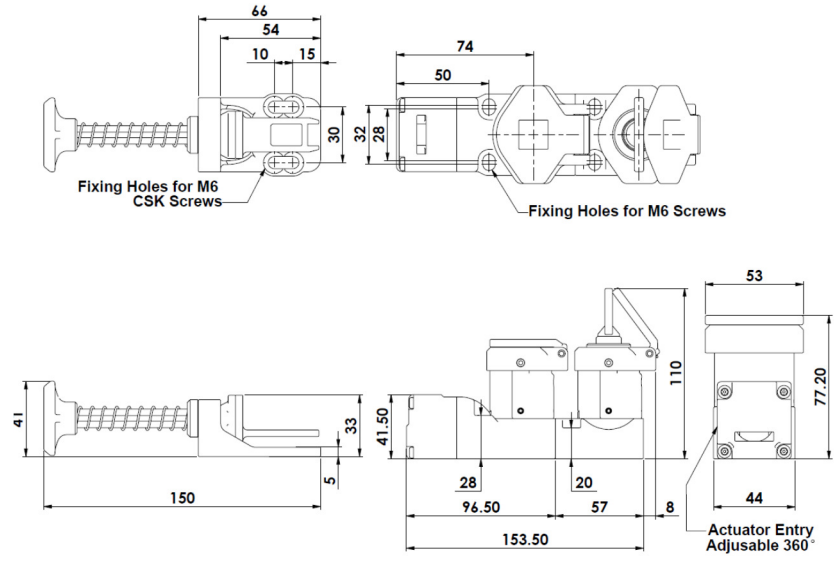
INSTALLATION: Installation must only be carried out by competent personnel and in accordance with these instructions. Always use correct size mounting bolts (M6), tightening torque 2Nm. Ensure that the holding force is sufficient to withstand the static forces applied during normal use and dynamic effects caused by bouncing of the guard shall not create an impact reaction force which exceeds the holding force. If the expected impact reaction forces are higher than the specified holding force for the switch, then design measures must be applied to avoid the force.

MAINTENANCE: Every month: If the actuator, key or housings display signs of mechanical damage then remove and replace. IDEM will not accept responsibility for failure of the interlock functions if the installation and maintenance requirements are not implemented.

THESE INSTRUCTIONS FORM PART OF THE PRODUCT WARRANTY.

TYPE: HT-S



Dimensions (mm)

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