Trapped Key HT Interlock (Three Key – One In, Two Out) – Type HT-T-12

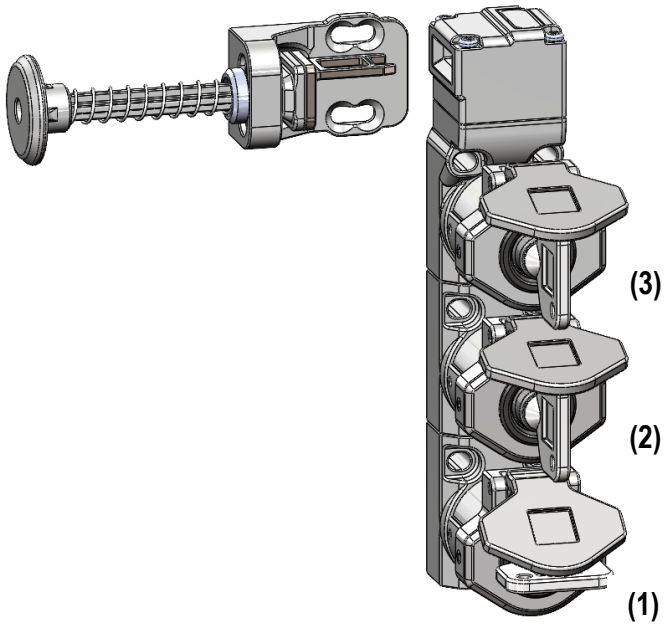
Operating Instructions

Operating Principle – Three Key:

The three key handle tongue 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 safety key (1) has been inserted and turned then the personnel keys (2 & 3) can be released sequentially, in turn, allowing the release of the actuator. This enables the guard or door to be opened allowing access into the guarded area. The operators can take keys 2 and 3 into the guarded area and they may be used to facilitate a further interlock requirement (e.g. machine jog/teach) or can be retained by the operators to ensure that the interlock sequence may not be reversed.

Only when the actuator is re-inserted, and then both of the personnel keys (2 & 3) are returned and trapped, can the safety key (1) be removed ensuring the door or guard is locked closed. The safety key (1) may then be returned to the key exchange block or isolator and power restored to the application.



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 metal 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: Check all circuits for correct function. If the key or housing display signs of mechanical damage, then remove and replace. IDEM will not accept responsibility for failure of the switch functions if the installation and maintenance requirements are not implemented. THESE INSTRUCTIONS FORM PART OF THE PRODUCT WARRANTY.

PART NUMBERS:

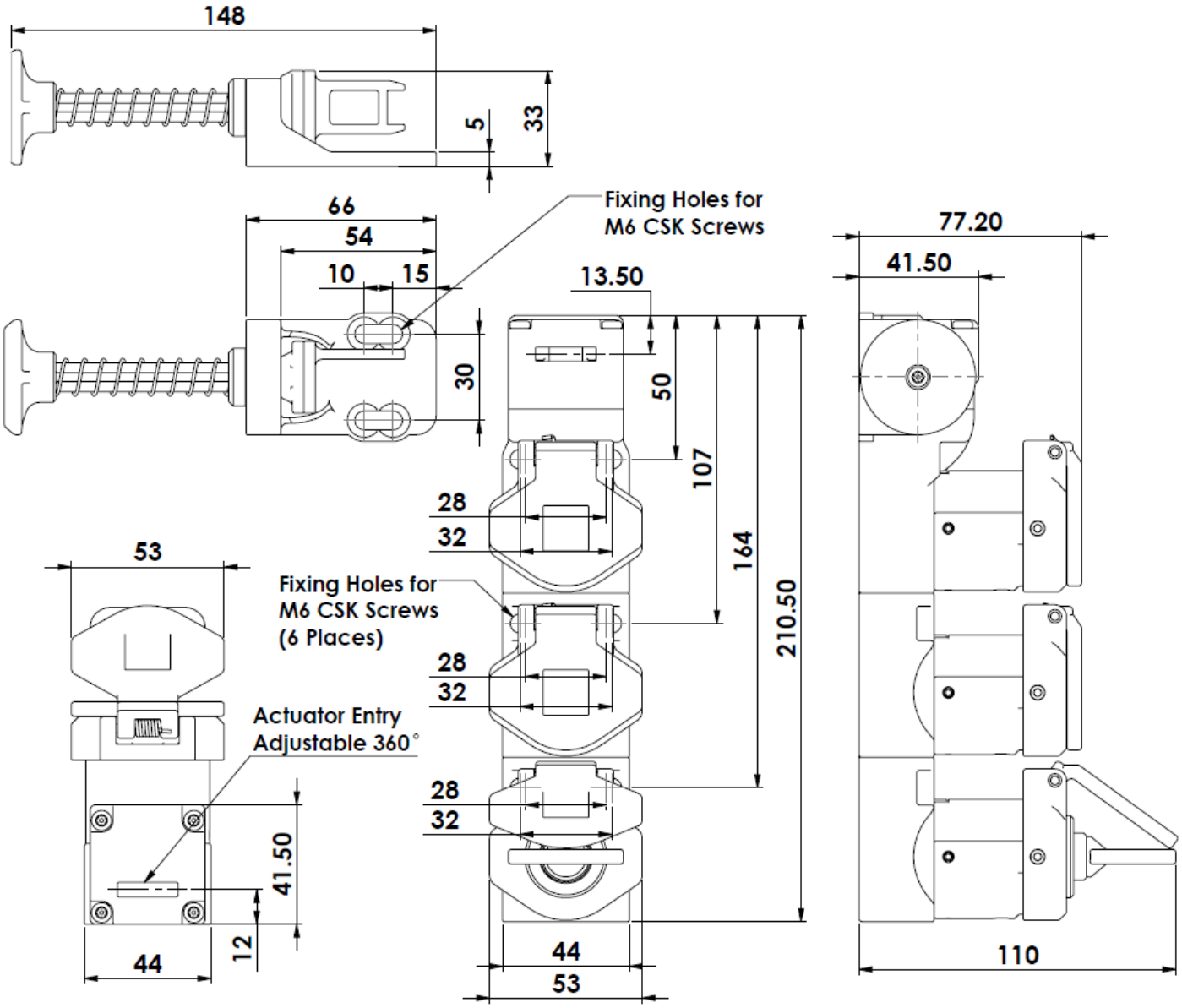
Material		Handle Tongue		Triple		Head Orientation		1 In, 2 Out
M	-	HT	-	T	-	L		12
M	-	HT	-	T	-	R		12
SS	-	HT	-	T	-	L		12
SS	-	HT	-	T	-	R		12

IDEM SAFETY SWITCHES Ltd., 2 Ormside Close, Hindley Industrial Estate, Hindley Green, Wigan, WN2 4HR UK. Tel: +44 (0)1942 257070 Fax.: +44 (0)1942 257076
IDEM SAFETY SWITCHES USA, Inc. 2574 S.Beverley St., Suite 104, Boise, ID 83709 Tel: 510-445-0751 Fax: 866-431-7064 email: sales@idemsafety.com Web: www.idemsafety.com

Doc.102716 DEC.25

Trapped Key HT Interlock (Three Key – One In, Two Out) – Type HT-T-12

PRODUCT DIMENSIONS:



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

NOTE: To rotate head alignment, remove x4 T20 head screws, rotate head in 90 degree increment as required, and fix back into position. Recommended tightening torque 1.8 Nm.

IDEM SAFETY SWITCHES Ltd., 2 Ormside Close, Hindley Industrial Estate, Hindley Green, Wigan, WN2 4HR UK. Tel: +44 (0)1942 257070 Fax.: +44 (0)1942 257076
IDEM SAFETY SWITCHES USA, Inc. 2574 S.Beverley St., Suite 104, Boise, ID 83709 Tel: 510-445-0751 Fax: 866-431-7064 email: sales@idemsafety.com Web: www.idemsafety.com