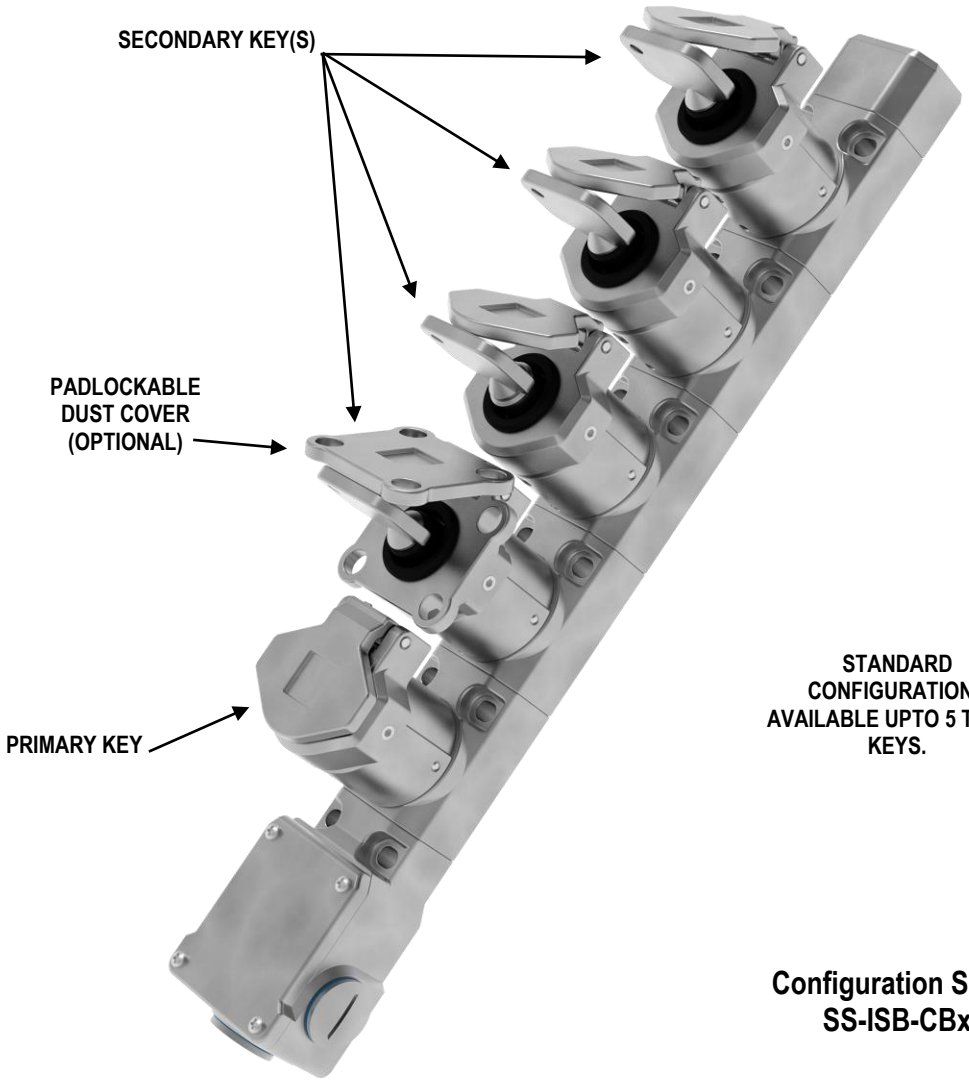
Trapped Key CONTROL SWITCH – ISB-CB x Multi Key
Operating Instructions



STANDARD CONFIGURATIONS AVAILABLE UPTO 5 TOTAL KEYS.

Configuration Shown (5-Way):
SS-ISB-CBx5-22-M-1x4-LT
(see table)

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.

WARNING: ALWAYS OBSERVE ELECTRICAL RATINGS FOR EX VERSIONS.

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.

CONFIGURATIONS AVAILABLE: (Please see part number table over page)

The ISB-CB with Multiple Keys is available in two configurations. Please consult Technical@idemsafety.com if in any doubt over function.

A) With the Primary Key FREE, once inserted and TRAPPED opening the NC contacts. Once Primary Key is TRAPPED, this allows the Secondary key(s) to be RELEASED.

or

B) With the Primary Key TRAPPED, and once turned and RELEASED, the NC contacts are opened. RELEASING the Primary Key and opening the NC contacts allows the Secondary Key(s) also to be RELEASED. ALL Primary and Secondary keys must be TRAPPED in order to make NC contacts.

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Doc.102663 Sept.24

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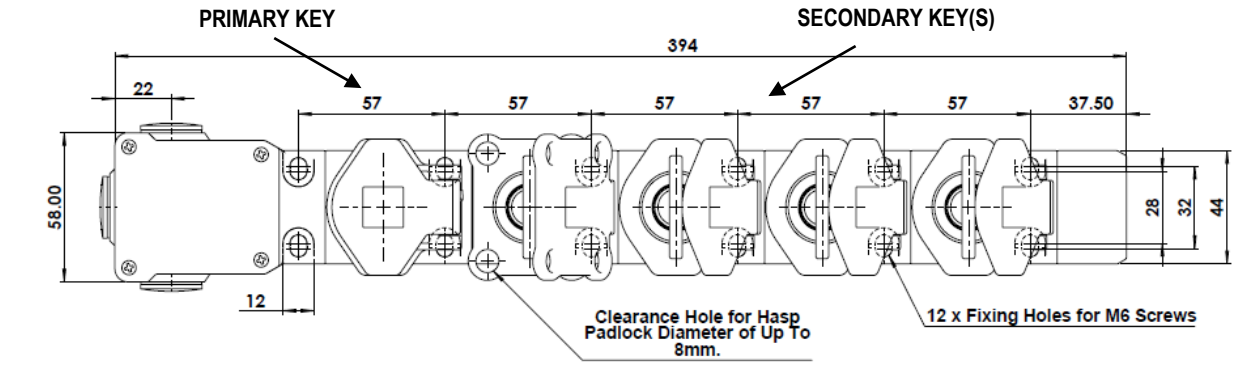
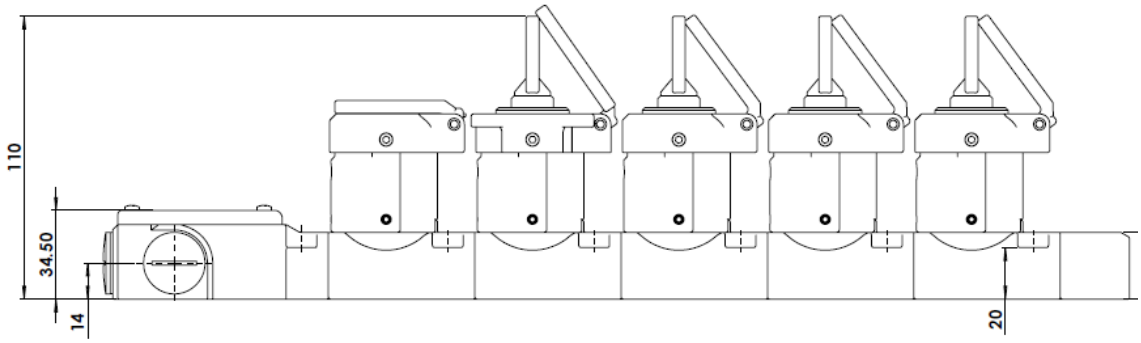
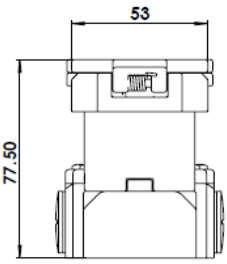
PRODUCT DIMENSIONS (mm) (5-Way shown)



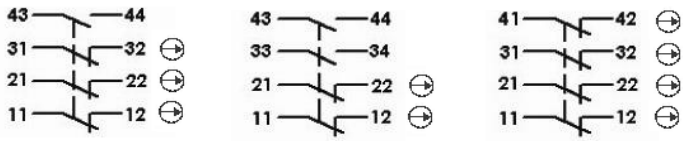




TECHNICAL SPECIFICATION:

Mechanical Life (B10d):	1,000,000cycles.
Ambient temperature:	-20C / 60C.
IP rating:	IP69K

STANDARD CONTACT BLOCKS



WHERE PRIMARY KEY IS FREE: e.g. M-ISB-CBx2-31-N-1x1

Power "ON" = Key FREE.
Power "OFF" = Key TRAPPED, allowing secondary TRAPPED keys to be RELEASED.
When secondary keys are RELEASED. Primary key is TRAPPED.

WHERE PRIMARY KEY IS TRAPPED: e.g. M-ISB-CBx2-31-N-0x2

Power "ON" = Key TRAPPED.
Power "OFF" = Key can be RELEASED, allowing secondary TRAPPED keys to be RELEASED also.
All keys must be present and trapped for Power "ON".

PART No. CONFIGURATION TABLE

Material (M / SS)	-	ISB-CB	x	Total Number of Keys	-	Contact Block NC / NO	-	Conduit Entry (M20 / 1/2"NPT	-	Key Free	x	Key(s) Trapped	Option - Lockable Dust Cover
M	-	ISB-CB	x	2	-		-		-	0	x	2	-LT
M	-	ISB-CB	x	2	-		-		-	1	x	1	-LT
M	-	ISB-CB	x	3	-	**22**	-		-	0	x	3	-LT
M	-	ISB-CB	x	3	-	*or*	-	**M**	-	1	x	2	-LT
M	-	ISB-CB	x	4	-	**31**	-	*or*	-	0	x	4	-LT
M	-	ISB-CB	x	4	-	*or*	-	**N**	-	1	x	3	-LT
M	-	ISB-CB	x	5	-	**40**	-		-	0	x	5	-LT
M	-	ISB-CB	x	5	-		-		-	1	x	4	-LT
SS	-	ISB-CB	x	2	-		-		-	0	x	2	-LT
SS	-	ISB-CB	x	2	-		-		-	1	x	1	-LT
SS	-	ISB-CB	x	3	-	**22**	-		-	0	x	3	-LT
SS	-	ISB-CB	x	3	-	*or*	-	**M**	-	1	x	2	-LT
SS	-	ISB-CB	x	4	-	**31**	-	*or*	-	0	x	4	-LT
SS	-	ISB-CB	x	4	-	*or*	-	**N**	-	1	x	3	-LT
SS	-	ISB-CB	x	5	-	**40**	-		-	0	x	5	-LT
SS	-	ISB-CB	x	5	-		-		-	1	x	4	-LT

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