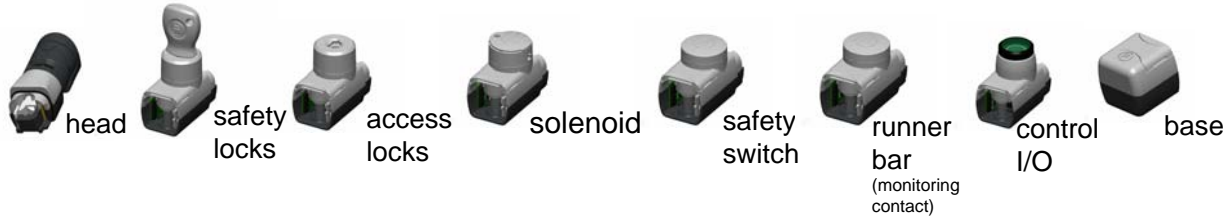


Total Access & Control

general configuration guidelines

- e A configuration must be made up of one head module, generally at least one core module and one base module.
- e Max No of modules = 11 (inc head & base)
- e Configuration sequence is:



max I/O connections per base connector type:

Part No	Desc	Max I/O	Connects safety circuits
BS	Safety Only	Zero	Yes
BB	Safety and Control 2 I/O	Max 2 I/O	Yes
BC	Safety and Control 8 I/O	Max 8 I/O	Yes
BA	Safety and Control Asi	Max 4 I & 4 O	Yes

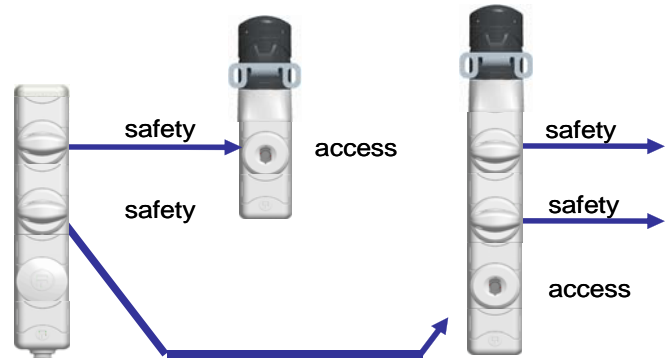
table 2. core module I/O requirements:

(I/O relative to eGard)				input (I)	output (O)	order of pin assigned from base to hood	module operates on safety circuits
Head	HF head & fixed actuator	HM head only	HC cap	0	0	-	0
	PG,PB,PW PR flat push buttons	M1 - M2 & MB, MR, MG mushrooms	2A - 2F 2 position selector switch	0	1	-	0
	P1 - P4 illuminated push buttons	EU, EL solenoid locking		1	1	input assigned first	0
Core	3A - 3F 3 position selector switch			0	2	clockwise output assigned first	0
	AB,SB,AD,SD mechanical locks	EB extension blank		0	0	-	0
	SS safety switch	ES e-stop	SR, ST, SW, SX, SV, SZ start / restart	0	0	-	✓
	LR, LG, LC lamps			1	0	-	0
	EM monitored e-stop			0	1	-	✓

Total Access & Control

- e The start / restart (SR) module cannot be used in stacks with either an e-stop (ES / EM) or safety switch (SS), since they all use the same hardwired circuits
- e All eGard configurations are CAT4 apart from ones combining an e-stop and a gate switch (having an ES and SS in same stack (this is CAT 3). Ref tech sheet 1
- e Red mushroom buttons must not be used in the USA as red mushrooms must only be used for e-stops

mechanical trapped key, sequencing guidelines:



lock choice

1. Choose safety or access function:

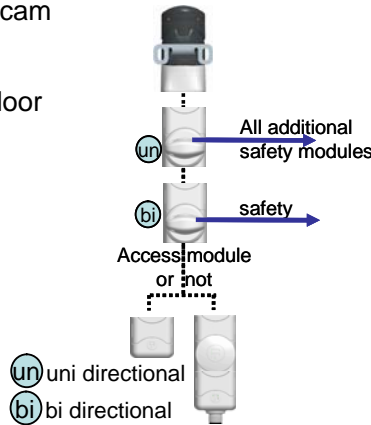
With the machine operating and therefore all access doors locked, the locks with keys in are Safety modules (and come including keys) and the locks without the keys are Access modules. For master systems use master lock part N°s, shown in the table below.

sequence

All mechanical locks Bi-directional (cam / sequenced release) as standard. Fortress only recommend non-sequenced release (runner-bar) for door locks or gate switches with multiple safety keys.

Preferred sequence

door locks or gate switches:
Safety module nearest base of the configuration must be bi, all additional Safety modules uni.

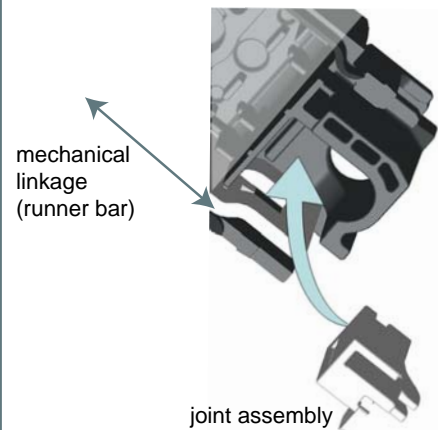


SB	SEQUENCED (BI) SAFETY LOCK INC KEY.
SU	NON SEQUENCED (UNI) SAFETY LOCK INC KEY.
SD	SEQUENCED (BI) SAFETY LOCK INC KEY & DUST COVER.
SE	NON SEQUENCED (UNI) SAFETY LOCK INC KEY & DUST COVER.
SN	SEQUENCED (BI) SAFETY LOCK WITHOUT KEY.
SP	NON SEQUENCED (UNI) SAFETY LOCK WITHOUT KEY.
AB	SEQUENCED (BI) ACCESS LOCK WITHOUT KEY.
AU	NON SEQUENCED (UNI) ACCESS LOCK WITHOUT KEY.
AD	SEQUENCED (BI) ACCESS LOCK WITHOUT KEY INC DUST COVER.
AE	NON SEQUENCED (UNI) ACCESS LOCK WITHOUT KEY INC DUST COVER.
SK	SEQUENCED (BI) SAFETY LOCK WITHOUT KEY INC DUST COVER.
SL	NON SEQUENCED (UNI) SAFETY LOCK WITHOUT KEY INC DUST COVER.
GB	MASTERED SEQUENCED (BI) SAFETY LOCK INC KEY.
GU	MASTERED NON SEQUENCED (UNI) SAFETY LOCK INC KEY.
GD	MASTERED SEQUENCED (BI) SAFETY LOCK INC KEY & DUST COVER.
GE	MASTERED NON SEQUENCED (UNI) SAFETY LOCK INC KEY & DUSTCOVER.
GN	MASTERED SEQUENCED (BI) SAFETY LOCK WITHOUT KEY.
GP	MASTERED NON SEQUENCED (UNI) SAFETY LOCK WITHOUT KEY.
QB	MASTERED SEQUENCED (BI) ACCESS LOCK WITHOUT KEY.
QU	MASTERED NON SEQUENCED (UNI) ACCESS LOCK WITHOUT KEY.

runner bar linking

SS & RB mechanical linkage (runner bar) must be joined directly to the module that drives the mechanical linkage (either the head or the nearest bi directional lock).

The SS & RB may not reset if their linkages are not joined.



Refer to electronic configuration tool on website