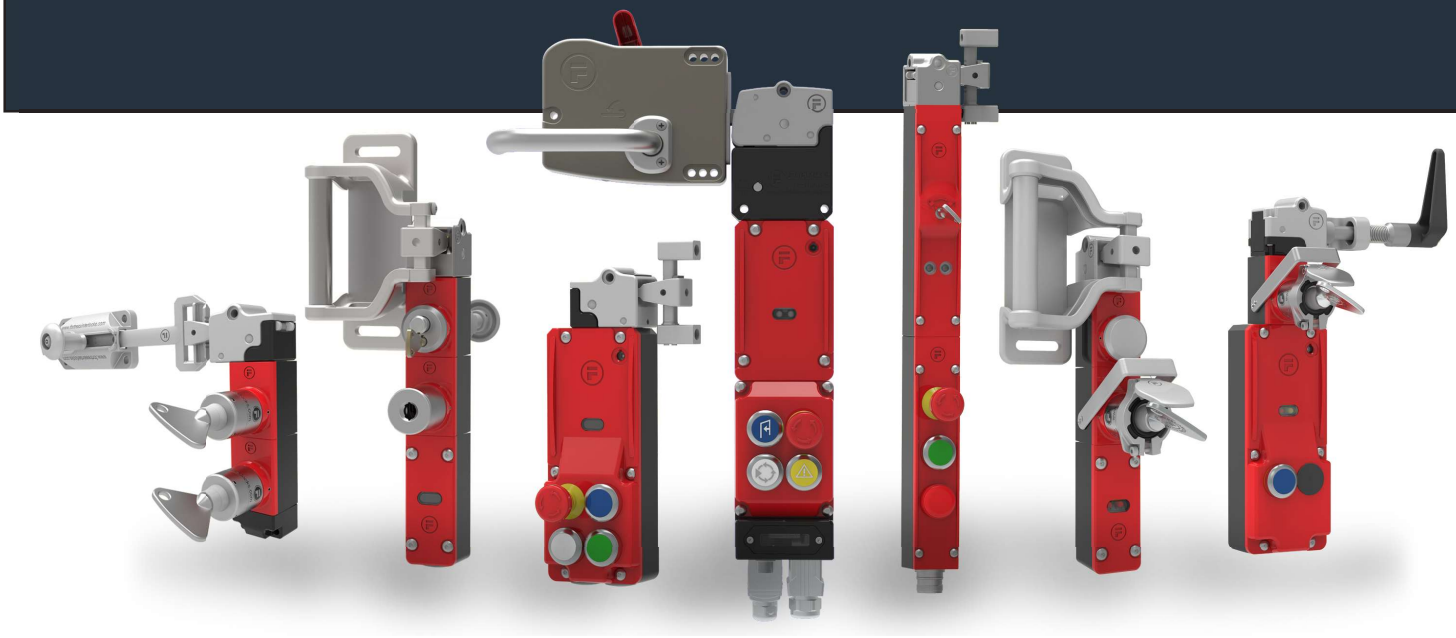
Fortress Interlocks

amGard pro

# amGard*pro* Configuration Tool



amGard pro

Also available on our website www.fortressinterlocks.com
as an online configurator

LEARN MORE

# Step 1a: Choose the Actuator

Actuators

## For use with 'M' Heads

### *pro*AM Handle

| Part No. | Description |
|---|---|
| MA | AM Handle |

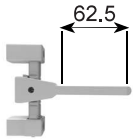
Turning motion holds door closed. Ideal for non locking set ups (i.e. *pro*STOP devices)

| Part No. | Description |
|---|---|
| MI | AM Handle with Internal Release |

Turning motion holds door closed. Internal handle allows user to open door from inside (pushIR may be required depending on application)

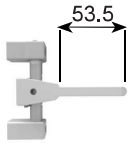
## For use with 'T' Heads

### *pro*AT Tongue




| Part No. | Description |
|---|---|
| TA | AT Tongue |

High strength and ease of opening makes this the most popular actuator in the amGard*pro* range.




| Part No. | Description |
|---|---|
| TK | Short AT Tongue (allows padlocks through the tongue to work as a lock out tag out, but reduces over travel). |

Allows padlocks through the tongue to work as a lock out tag out, but reduces over travel

### *pro*Slidebar Options

| Part No. | Description |
|---|---|
| TN | Slidebar without a spring |

Sliding motion holds door closed. With no return spring unit remains in the position it is left in

| Part No. | Description |
|---|---|
| TS | Slidebar with a return spring |

Sliding motion holds door closed. Return spring pulls the slidebar open, preventing clashes with the head (but requires the slide-bar to be held forward whilst locking)

| Part No. | Description |
|---|---|
| TI | Slidebar with Internal handle but no return spring |

Sliding motion holds door closed. Same as a TN but IR knob allows door to be opened (but not closed) from the inside when main unit is unlocked

| Part No. | Description |
|---|---|
| TM | Slidebar with Internal handle c/w TK Short Tongue |

Sliding motion holds door closed. Short TK tongue allows padlock through tongue to act as a lock out. Additional lock out space at rear of slidebar

| Part No. | Description |
|---|---|
| TG | Slidebar with Internal handle for GM |

Sliding motion holds door closed. Short TK tongue allows padlock through tongue to act as a lock out.
No additional lock out space at rear of slidebar

| Part No. | Description |
|---|---|
| TF | Slidebar with Internal handle c/w spacer behind the knob |

Same as a TN but IR knob allows door to be opened and closed from the inside when main unit is locked

### *pro*Handle Options

| Part No. | Description |
|---|---|
| EN | *pro*Handle, no Internal Release |

Handle motion holds door closed, but no method to open door from inside

| Part No. | Description |
|---|---|
| EF | *pro*Handle, with Internal Access Handle |

Handle motion holds door closed. Internal access handle allows door to be opened and closed from the inside

| Part No. | Description |
|---|---|
| EH | *pro*Handle (the red internal release handle only works with units with no locking (i.e. stops) or in conjunction with a Push IR unit). |

The red internal release handle only works with units with no locking (i.e. Stops) or in conjunction with a pushIR unit

## For use with 'I' or 'A' Heads

### *pro*Release IR Handle

| Part No. | Description |
|---|---|
| EI | *pro*IR Handle to allow emergency release (only to be used with I6 or I7 head). |

Handle motion holds door closed.
Red handle overrides all locking mechanisms and opens safety contacts to allow escape release

pro i

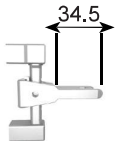
MI, TI, TM, TG, TF and EH work well with a Push IR unit (see step 4)

# Step 1b: Choose the Actuator

Actuators

**For use with 'S' Heads**

## *pro* Slimline Tongue




| Part No. | Description |
|---|---|
| *SA | Slimline Tongue |

High strength, but suitable for all Slimline configurations

pro i

"If you select an SA, SI, SN, SF, SS, SD, HS, HL you must then select Slimline Head S6 only"

## *pro*Slidebar - Short Tongue Options

| Part No. | Description |
|---|---|
| SN | Slimline Tongue Slidebar without a spring |

Sliding motion holds door closed. With no return spring unit remains in the position it is left in

| Part No. | Description |
|---|---|
| SS | Slimline Tongue Slidebar with a return spring |

Sliding motion holds door closed. Return spring pulls the slidebar open, preventing clashes with the head (but requires the slidebar to be held forward whilst locking)

| Part No. | Description |
|---|---|
| SI | Slimline Tongue Slidebar with Internal handle but no return spring |

Sliding motion holds door closed. Same as a SN but IR knob allows door to be opened (but not closed) from the inside when main unit is unlocked

| Part No. | Description |
|---|---|
| SF | Slimline Tongue Slidebar with Internal handle c/w spacer behind the knob |

Same as a SN but IR knob allows door to be opened and closed from the inside when main unit is locked

## *pro* Hand Operated Actuator

| Part No. | Description |
|---|---|
| SD | Hand Operated Sprung Actuator with Slimline tongue |

## *pro*Hinged Handle Options

| Part No. | Description |
|---|---|
| HS1 | *pro*Hinged Handle - Short Reach for use with *pro*Stop units (40mm wide) |

Particularly useful for applications using small radius hinged doors (250mm min)

| Part No. | Description |
|---|---|
| HL1 | *pro*Hinged Handle - Long Reach for use with *pro*Lok units (80mm wide) |

Particularly useful for applications using small radius hinged doors (250mm min)

## NO Actuator Required

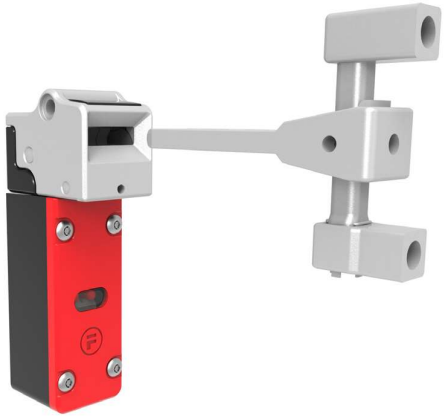
X

| Part No. | Description |
|---|---|
| NO | No Actuator required |

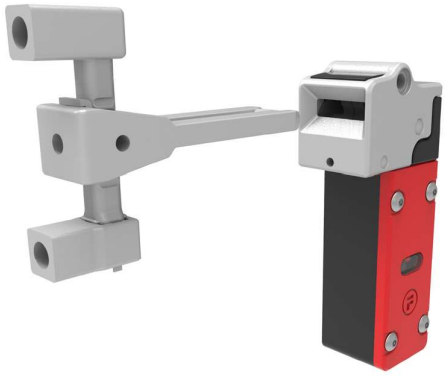
Select this when you wish to specify head direction (Handing) but are not purchasing an actuator

pro i

"If no Actuator is required go to Step 3, where you can select a Head or Cap (C6)"



| Part No. | Handing Description |
|---|---|
| 1 | Front Facing |



| Part No. | Handing Description |
|---|---|
| 2 | Left Hand |

| Part No. | Handing Description |
|---|---|
| 3 | Rear Facing |

| Part No. | Handing Description |
|---|---|
| 4 | Right Hand |

pro i

Even if you have not chosen an actuator from Step 1 you can still choose handing for the head module

pro i

If you chosen an EI Actuator from Step 1, Front Facing,1 and Rear Facing, 3 Handing options are not allowed

HS1S6ST401

pro i

If you choose a HS/HL Handle & an S6 Head it is recommended you choose a Front Facing configuration

## Step 3: Choose the Head Module

Head Modules

### *pro*Cap Options

| Part No. | Description |
|---|---|
| C6 | To terminate assemblies without heads |

Terminates assemblies without heads

### *pro*AM Head Options

For use with actuators:
MA
MI

| Part No. | Description |
|---|---|
| M6 | *pro*AM Head |

Turning motion holds door closed. Ideal for non locking set ups (i.e. *pro*STOP devices)

For use with actuators:
MA
MI

| Part No. | Description |
|---|---|
| M7 | *pro*AM Head c/w Drop Down Lockout |

M6 head with drop down lockout. This lockout features slides into place every time actuator is removed. Ideal for applications where lockout is to be used on every entry

For use with actuators:
MA
MI

| Part No. | Description |
|---|---|
| M8 | *pro*AM Head c/w Lock-Out Clip |

M6 head with drop down clip. Ideal for applications where lockout is not to be used on every entry

pro i

If a head module is not required, leave the part number blank and continue to Step 4

### *pro*AT Head Options

For use with actuators:

| | |
|---|---|
| TA | TS |
| TK | TM |
| TI | TG |
| TN | TF |
| EH | EN |

| Part No. | Description |
|---|---|
| T6 | *pro*AT Head |

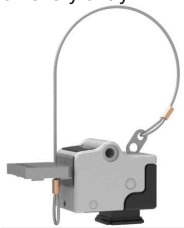
High strength and ease of opening makes this the most popular head in the amGard*pro* range

For use with actuators:

| | |
|---|---|
| TA | TS |
| TK | TM |
| TI | TG |
| TN | TF |
| EH | EN |

| Part No. | Description |
|---|---|
| T7 | *pro*AT Head c/w Drop Down Lockout |

T6 head with drop down lockout. This lockout features slides into place every time actuator is removed. Ideal for applications where lockout is to be used on every entry



For use with actuators:

| | |
|---|---|
| TA | TS |
| TK | TM |
| TI | TG |
| TN | TF |
| EH | EN |

| Part No. | Description |
|---|---|
| T8 | *pro*AT Head c/w ATL Lock-Out Clip |

T6 head with drop down clip. Ideal for applications where lockout is not to be used on every entry

### *pro*AT Slimline Head Options

For use with actuators:

| | |
|---|---|
| SA | SF |
| SI | SD |
| SS | HS |
| SN | HL |

| Part No. | Description |
|---|---|
| S6 | *pro*AT Slimline Head |

S6 Head with the HL1 for the Lok must be forward facing only.

S6 Head with the HS1 for the Stop / Safety Key must be forward facing only.

S6 Head with the SA* Tongue for the Lok / Safety Key can be any facing.

pro i

An S6 head works especially well with a slimline *pro*Lok to give a final product that is only 40mm wide

pro i

Ensure the head module you have selected works with the actuator you have selected in Step 1

### *pro*Release IR Handle Options

For use with actuators:
EI

| Part No. | Description |
|---|---|
| I6 | *pro*IR Head (only works in conjunction with EI handle) |
| A6 | Auto reset all in one head (only works in conjunction with EI handle) |

Handle motion holds door closed. Red handle overrides all locking mechanisms and opens safety contacts to allow escape release

For use with actuators:
EI

| Part No. | Description |
|---|---|
| I7 | *pro*IR Head c/w drop down lockout (only works in conjunction with EI handle) |
| A7 | Auto reset all in one head c/w drop down lockout (only works in conjunction with EI handle) |

I6 / A6 head with drop down lockout. This lockout features slides into place every time actuator is removed. Ideal for applications where lockout is to be used on every entry

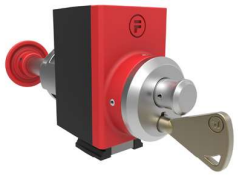
## Step 4: Do you want a Push IR

Adaptors

A Push IR will allow Internal Escape Release even if unit is locked by keys and or solenoid. A Push IR is **not** needed if an EI Handle and I6 / I7 or A6 / A7 Head have already been specified. (note, a pull reset (R6, R7, R8 & R9) reduces the safety of the system).

| Part No. | Push IR Description |
|---|---|
| R1 | Key Reset (up to 40mm panel thickness) |

Same as RW but key reset to ensure all incidents are reported



| Part No. | Push IR Description |
|---|---|
| R2 | Key Reset (up to 60mm panel thickness) |

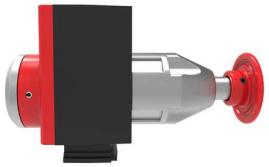
Same as RX but key reset to ensure all incidents are reported

| Part No. | Push IR Description |
|---|---|
| R3 | Key Reset (up to 80mm panel thickness) |

Same as RY but key reset to ensure all incidents are reported

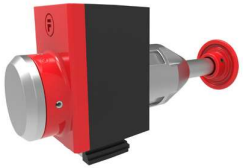
| Part No. | Push IR Description |
|---|---|
| R4 | Key Reset (variable length - for panel thickness over 80mm and up to 1m) |

Same as RZ but key reset to ensure all incidents are reported



| Part No. | Push IR Description |
|---|---|
| R6 | Pull Reset (up to 40mm panel thickness) |

Same as RW but pull reset allows door to be relocked from the inside (requires careful risk assessment to ensure this is acceptable)



| Part No. | Push IR Description |
|---|---|
| R7 | Pull Reset (up to 60mm panel thickness) |

Same as RX but pull reset allows door to be relocked from the inside (requires careful risk assessment to ensure this is acceptable)

| Part No. | Push IR Description |
|---|---|
| R8 | Pull Reset (up to 80mm panel thickness) |

Same as RY but pull reset allows door to be relocked from the inside (requires careful risk assessment to ensure this is acceptable)

| Part No. | Push IR Description |
|---|---|
| R9 | Pull Reset (variable length for panel thickness over 80mm and up to 1m) |

Same as RZ but pull reset allows door to be relocked from the inside (requires careful risk assessment to ensure this is acceptable)

pro i

If a Push IR is not required leave part number blank and go to Step 5

| Part No. | Push IR Description |
|---|---|
| RW | Front Reset no key (up to 40mm panel thickness) |

Overrides all locking mechanisms and opens safety contacts to allow escape release. Simple push reset allows quick restart. Suitable for panels up to 40mm thick

| Part No. | Push IR Description |
|---|---|
| RX | Front Reset no key (up to 60mm panel thickness) |

Overrides all locking mechanisms and opens safety contacts to allow escape release. Simple push reset allows quick restart. Suitable for panels up to 60mm thick

| Part No. | Push IR Description |
|---|---|
| RY | Front Reset no key (up to 80mm panel thickness) |

Overrides all locking mechanisms and opens safety contacts to allow escape release. Simple push reset allows quick restart. Suitable for panels up to 80mm thick

| Part No. | Push IR Description |
|---|---|
| RZ | Front Reset no key (variable length for panel thickness over 80mm up to 1m) |

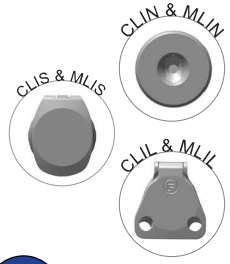
Overrides all locking mechanisms and open safety contacts to allow escape release. Simple push reset allows quick restart. Suitable for panels up to 300mm thick

## Step 5: Choose an Extracted Key Adaptor

Adaptors

| Part No. | E | K | | |
|---|---|---|---|---|

| Description | Part No. |
|---|---|
| Standard Lock | L |
| Releasing Lock (must be used if a Push IR or EI Handle and Head used). | R |




| Description | Information | | Part No. |
|---|---|---|---|
| Standard Lock no dustcover | Removed key ensures door cannot be locked until operator returns from cell with the key. Extracted version will not open door until key is removed | CLIN | 1 |
| Standard Lock with dustcover | Same as EK_1 but with dustcover for dusty environments | CLIS | 2 |
| Standard Lock with padlockable dustcover | Same as EK_1 but padlockable dustcover allows lockout feature | CLIL | 3 |
| Masterable Lock no dustcover | Same as EK_1 but master lock allows a single key to override all locks (master key must be carefully controlled on site) | MLIN | 6 |
| Masterable Lock with dustcover | Same as EK_2 but master lock allows a single key to override all locks (master key must be carefully controlled on site) | MLIS | 7 |
| Masterable Lock with padlockable dustcover | Same as EK_3 but master lock allows a single key to override all locks (master key must be carefully controlled on site) | MLIL | 8 |

**or**

If you've selected an I6/I7 or A6/A7 then select a releasing lock.

If you've selected a Push IR adaptor then select a releasing lock.

pro 1

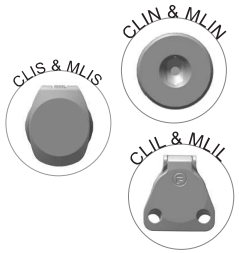
**If an Extracted Key Adaptor is not required leave part number blank and go to Step 6**

## Step 6: Choose a Safety Key Adaptor

Adaptors

| Part No. | S | K | | | |
|---|---|---|---|---|---|

| Description | Part No. |
|---|---|
| Standard Lock | L |
| Releasing Lock (must be used if a Push IR or EI Handle and Head used). | R |




| Description | Information | | Part No. |
|---|---|---|---|
| Standard Lock no dustcover | Removed key ensures door cannot be locked until operator returns from cell with the key | CLIN | 1 |
| Standard Lock with dustcover | Same as SK_1 but with dustcover for dusty environments | CLIS | 2 |
| Standard Lock with padlockable dustcover | Same as SK_1 but padlockable dustcover allows lockout feature | CLIL | 3 |
| Masterable Lock no dustcover | Same as SK_1 but master lock allows a single key to override all locks (master key must be carefully controlled on site) | MLIN | 6 |
| Masterable Lock with dustcover | Same as SK_2 but master lock allows a single key to override all locks (master key must be carefully controlled on site) | MLIS | 7 |
| Masterable Lock with padlockable dustcover | Same as SK_3 but master lock allows a single key to override all locks (master key mst be carefully controlled on site) | MLIL | 8 |

| Description | Part No. |
|---|---|
| No. of Safety Key Adaptors required | 1 - 9 |

Total Extracted, Safety & Access Locks in one configuration is Max 9

pro i

or

If you've selected an I6/I7 or A6/A7 then select a releasing lock.

If you've selected a Push IR adaptor then select a releasing lock.

pro i

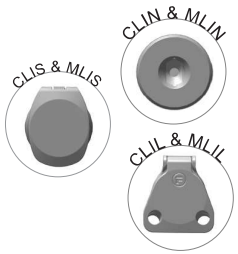
If a Safety Key Adaptor is not required leave part number blank and go to Step 7

## Step 7: Choose an Access Key Adaptor

Adaptors

| Part No. | A | K | | | |
|---|---|---|---|---|---|

| Description | Part No. |
|---|---|
| Standard Lock | L |
| Releasing Lock (must be used if a Push IR or EI Handle and Head used). | R |




| Description | Information | | Part No. |
|---|---|---|---|
| Standard Lock no dustcover | Ensures door cannot be opened without access key. Access key could be held by authorised individuals (e.g. maintenance) or it could have been released by a seperate unit | CLIN | 1 |
| Standard Lock with dustcover | Same as AK_1 but with dustcover for dusty environments | CLIS | 2 |
| Standard Lock with padlockable dustcover | Same as AK_1 but padlockable dustcover allows lockout feature | CLIL | 3 |
| Masterable Lock no dustcover | Same as AK_1 but master lock allows a single key to override all locks (master key must be carefully controlled on site) | MLIN | 6 |
| Masterable Lock with dustcover | Same as AK_2 but master lock allows a single key to override all locks (master key must be carefully controlled on site) | MLIS | 7 |
| Masterable Lock with padlockable dustcover | Same as AK_3 but master lock allows a single key to override all locks (master key must be carefully controlled on site) | MLIL | 8 |

pro i

Total Extracted, Safety & Access Locks in one configuration is Max 9

| Description | Part No. |
|---|---|
| No. of Access Key Adaptors required | 1 - 9 |

pro i

If an Access Key Adaptor is not required leave part number blank and go to Step 8

or

If you've selected an I6/I7 or A6/A7 then select a releasing lock.

If you've selected a Push IR adaptor then select a releasing lock.

## Step 8: Choose an Electrical Switching / Locking Body

Electrical Switching / Locking

### *pro*LOK Body

SL

SE

| Part No. | Description | Information |
|---|---|---|
| SL | Short LOK Body | Solenoid controlled safety switch. Holds door locked until signal sent to unlock. No provision for control buttons |
| SR | Short LOK Body - Releasing (must be used if a Push IR or EI handle and head used). | Same as SL but allows Push IR or EI handle to override it |
| SE | Short LOK Body - Integrated Escape Release | Same as SL but it's integrated escape release button overrides locking mechanism and opens safety contacts (Does not work with key adaptors, EI or Push IR) |

### *pro*LOK+ Body

LL

LE

| Part No. | Description | Information |
|---|---|---|
| LL | Long LOK Body | Solenoid controlled safety switch. Holds door locked until signal sent to unlock. With space for control buttons |
| LR | Long LOK Body - Releasing (must be used if a Push IR or EI handle and head used). | Same as LL but allows Push IR or EI handle to override it |
| LE | Long LOK Body - Integrated Escape Release | Same as LL but it's integrated escape release button overrides locking mechanism and opens safety contacts (Does not work with key adaptors, EI or Push IR) |

or

If you've selected an I6/I7 or A6/A7 then select a releasing lock.

If you've selected a Push IR adaptor then select a releasing lock.

### Slimline *pro*Lok Body

| Part No. | Description | Information |
|---|---|---|
| ZL | Slimline LOK Body | Solenoid controlled safety switch. Holds door locked until signal sent to unlock. No provision for control buttons. Only 40mm wide |
| ZR | Slimline LOK Body - Releasing (must be used if a Push IR or EI handle and head used). | Same as ZL but allows Push IR or EI handle to override it. Only 40mm wide |

pro i

For *pro*Net configurations *pro*LOK+ body is only needed if 5 - 8 pushbutton / lamp options are required

### *pro*Stop Body

| Part No. | Description | Information |
|---|---|---|
| ST | Stop Body | Safety switch |

pro i

A Slimline *pro*LOK works best with an S6 head to give a final product that is only 40mm wide

### *pro*Stop EX/UX Body

| Part No. | Description | Information |
|---|---|---|
| EX | EU Explosion Stop Body | Safety switches suitable for explosive environments with EU certification |
| UX | US Explosion Stop Body | Safety switches suitable for explosive environments with US certification |

### *pro*Stop Foot

| Part No. | Description | Information |
|---|---|---|
| FT | To Terminate non-switch configurations | Terminates non-switch configurations (not suitable for units with Push IR or EI handle) |

pro i

If an Electrical Switching / Locking Body is not required leave part number blank and continue to Step 10

# Step 9: Choose Electrical Switching / Locking Body Options

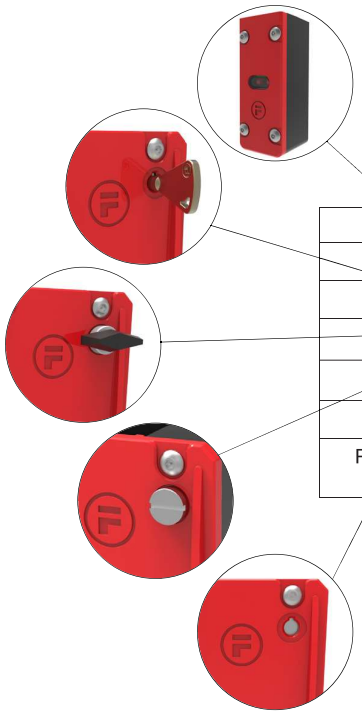
**IMPORTANT NOTE:**
- For all *pro*LOK *pro*Net configurations go to step 10b.
- For all *pro*LOK+ *pro*Net configurations first go to step 10a then 10b.

**Part No.** | | | |

pro i

Slimline *pro*LOK can only be configured in 24v

| Voltage Options | Part No. |
|---|---|
| No Voltage (eg Foot) | 0 |
| 110v | 1 |
| 230v | 2 |
| 24v | 4 |
| 100v | 5 |
| 48v | 7 |
| Asi | 8 |
| 110v Solenoid / 24v Control (LOK only) | S |
| 110v Control / 24v Solenoid (LOK only) | C |
| *pro*Net Connection (Not available for Slimline *pro*LOK) | P |



| Override Options | Part No. |
|---|---|
| Stop/EXP/UXP | 0 |
| PTU - Key Override | 1 |
| PTU - Knob Override | 2 |
| PTU - Screwdriver Override | 3 |
| PTL (24v, 110v & ASi only) | 6 |
| PTL with fully monitored solenoid (ZL / ZR only) | 7 |

pro i

Not available for ZL or ZR

| Other PCB Options | *pro*Body Types | Part No. |
|---|---|---|
| Std & Sourcing | ALL | 1 |
| Std & Sinking | ST Only | 2 |
| Std & Sourcing (3 x NC) | ST Only | 3 |
| Std & Sourcing (Y&G LEDS) | SL, SR, LL & LR Only | 4 |
| Un-Monitored Sol & Sourcing | SL, SR, LL, ZL & LR, ZR Only | 6 |
| Un-Monitored Sol & Sourcing (Y&G LEDS) | SL, SR, LL & LR Only | 7 |
| Individual Safety Control for Sol & Actuator | SL, SR, LL, LR, SE & LE Only | 8 |

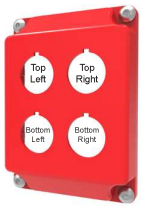
pro i

This is ordered by 99% of our customers

# Step 10a: Choose options for Separate Option Pod or *pro*LOK+ Body

Option Pods

Separate Option Pod with 4 hole positions




Separate Option Pod with 2 hole positions

*pro*LOK+ Body with 2 hole positions

*pro*LOK+ Body with 4 hole positions

pro i

If you order just one or two pushbuttons we will retain the order but position them top left and top right

**Part No.**

| Top Left | Top Right | Bottom Left | Bottom Right |
|---|---|---|---|
| | | | |

| Select Unit | Pod Type | Terminals OR QD | AS-i |
|---|---|---|---|
| Stand alone Pod with No holes on top of pod case (stand alone unit) | B | 0 | 5 |
| Pod with one hole on top of pod case for fitting to *pro*Stop Body | B | 1 | 6 |
| Pod with two holes on top of pod case for fitting to *pro*LOK Body | B | 2 | 7 |
| *pro*LOK+ Body switch information | L | 0 | 5 |

| Part No. | Pushbutton / Lamp Options - 24v only |
|---|---|
| 0 | Blank |
| 1 | Red Lamp |
| 2 | Yellow Lamp |
| 3 | Green Lamp |
| 6 | Blue Lamp |
| 7 | White Lamp |
| E | E-Stop (twist reset) |
| H | E-Stop (with additional monitoring contacts, twist reset) |
| P | E-Stop (pull reset) |
| U | E-Stop (illuminated twist reset) |
| L* | Latching selector switch (illuminated) |
| M* | Momentary selector switch (illuminated) |
| A* | Latching key switch (90 degree) |
| R | Red illuminated pushbutton non latching |
| Y | Yellow illuminated pushbutton non latching |
| G | Green illuminated pushbutton non latching |
| B | Blue illuminated pushbutton non latching |
| W | White illuminated pushbutton non latching |
| K | Black non illuminated pushbutton non latching |

| Part No. | Sensors - 24v only |
|---|---|
| N | No additional switch required |
| C | Coded Magnet - Left Hand (see step 2 for handing) |
| D | Coded Magnet - Right Hand (see step 2 for handing) |
| S | RFID - Left Hand (see step 2 for handing) |
| T | RFID - Right Hand (see step 2 for handing) |

pro i

L, M & A Options can only be fitted in top right or bottom left positions

pro i

If an Option Pod or Long LOK Body is not required leave part number blank and continue to Step 11

# Step 10b: Choose options for *pro*Net Option Pod

pro i

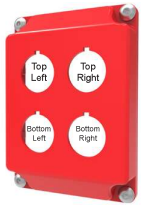
If you order just one or two pushbuttons we will retain the order but position them top left and top right

**Part No.**

| Top Left | Top Right | Bottom Left | Bottom Right | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| N | | | | | | N | P | F | | |

| Select Unit | PROFINET | Ethernet/IP |
|---|---|---|
| Stand alone *pro*Net Pod | 0 | 3 |
| *pro*Net Pod mounted below a *pro*LOK or *pro*LOK+ unit or *pro*Stop unit | 2 | 5 |

Pushbutton / Lamp positions for up to 4 selections




Pushbutton / Lamp positions for up to 2 selections

| Part No. | Pushbutton / Lamp Options - 24v only |
|---|---|
| 0 | Blank |
| 1 | Red Lamp |
| 2 | Yellow Lamp |
| 3 | Green Lamp |
| 6 | Blue Lamp |
| 7 | White Lamp |
| E | E-Stop (twist reset) |
| H | E-Stop (with additional monitoring contacts, twist reset) |
| P | E-Stop (pull reset) |
| U | E-Stop (illuminated twist reset) |
| L* | Latching selector switch (illuminated) |
| M* | Momentary selector switch (illuminated) |
| A* | Latching key switch (90 degree) |
| R | Red illuminated pushbutton non-latching |
| Y | Yellow illuminated pushbutton non-latching |
| G | Green illuminated pushbutton non-latching |
| B | Blue illuminated pushbutton non-latching |
| W | White illuminated pushbutton non-latching |
| K | Black non illuminated pushbutton non-latching |

| Connection Options | | |
|---|---|---|
| AIDA with 'B coded' external safety switch | 0 | 4 |
| AIDA with 'A coded' external safety switch | 0 | 5 |
| AIDA connectors | 0 | 6 |
| 3 M12 QD set - 1 Power 2 Data | 0 | 7 |
| 4 M12 QD set - 1 Power 1 External Safety Switch 2 Data | 0 | 9 |
| 4 M12 QD set - 2 Power 2 Data | 1 | 0 |
| 4 QD set - 2 Power (7/8s) 2 Data (M12) | 1 | 1 |
| AIDA connectors with 'A coded' external double safety switch | 1 | 5 |

pro i

L, M & A Options can only be fitted in top right or bottom left positions

**IMPORTANT NOTE:**

- If you have selected a *pro*Net option pod then your amGard*pro* configuration process has now finished. There are no further steps required.
- If you don't require a *pro*Net option pod then proceed to Steps 10c, 11 or 12.

# Step 10c: Choose options for Slimline Option Pod

Option Pods

| Part No. | | | | | | 0 | N |
|---|---|---|---|---|---|---|---|
| | | | Top Position | Middle Position | Bottom Position | | |

**Ordering Sequence**
1 - Top Position
2 - Middle Position
3 - Bottom Position

| Select Unit | Wiring Type | Pod Type |
|---|---|---|
| Stand alone Slimline Pod with common power supply | Y | 0 |
| Slimline Pod to be fitted below *pro*Stop or Slimline *pro*LOK unit with com-mon power supply | Y | 1 |
| Stand alone Slimline Pod (with power supply wired individually volt-free contacts) | W | 0 |
| Slimline Pod to be fitted below *pro*Stop or Slimline *pro*LOK unit (with power supply wired individually volt-free contacts) | W | 1 |

pro i

Majority of customers prefer common power supply due to the reduced wiring complexity

| Part No. | Pushbutton / Lamp Options - 24v only |
|---|---|
| 0 | Blank |
| 1 | Red Lamp |
| 2 | Yellow Lamp |
| 3 | Green Lamp |
| 6 | Blue Lamp |
| 7 | White Lamp |
| E | E-Stop (twist reset) |
| H | E-Stop (with additional monitoring contacts, twist reset) |
| P | E-Stop (pull reset) |
| U | E-Stop (illuminated twist reset) |
| L | Latching selector switch (illuminated) |
| M | Momentary selector switch (illuminated) |
| A | Latching key switch (90 degree) |
| R | Red illuminated pushbutton non-latching |
| Y | Yellow illuminated pushbutton non-latching |
| G | Green illuminated pushbutton non-latching |
| B | Blue illuminated pushbutton non-latching |
| W | White illuminated pushbutton non-latching |
| K | Black non illuminated pushbutton non-latching |

pro i

If an Option Pod or Long LOK Body is not required leave part number blank and continue to Step 11

## Step 11: Do you want a Key Switch Option Pod?

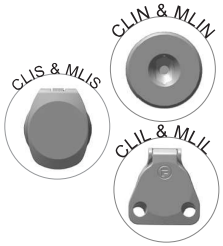
Option Pods

| Part No. | B | K | | |
|---|---|---|---|---|

pro i

Removal of the key operates a set of safety rated switches. Common uses are: request machine stop, enable teach mode and prevent inadvertent re-start

| Select Unit | Part No. | |
|---|---|---|
| Stand alone Pod with No holes on top of pod case (stand alone unit) | 0 | |
| Pod with one hole on top of pod case for fitting to *pro*Stop Body | 1 | |
| Pod with two holes on top of pod case for fitting to *pro*LOK Body | 2 | |




| Description | | Part No. |
|---|---|---|
| Standard Lock no dustcover | CLIN | 1 |
| Standard Lock with dustcover | CLIS | 2 |
| Standard Lock with padlockable dustcover | CLIL | 3 |
| Masterable Lock no dustcover | MLIN | 6 |
| Masterable Lock with dustcover | MLIS | 7 |
| Masterable Lock with padlockable dustcover | MLIL | 8 |

pro i

If a Key Switch Option Pod is not required leave part number blank and continue to Step 12

# Step 12a: Quick Disconnect Connector Options

## Quick Disconnect Connector Options

### D1

| No. Pins | 5 |
|---|---|
| Max Voltage | 300v |
| Connector | M12 |

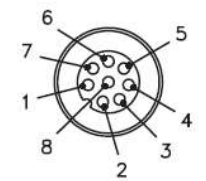
| | | |
|---|---|---|
| 1 | Brown | |
| 2 | White | |
| 3 | Blue | |
| 4 | Black | |
| 5 | Grey | |

### D2

| No. Pins | 12 |
|---|---|
| Max Voltage | 300v |
| Connector | UN2 |

| | | |
|---|---|---|
| 1 | Orange | |
| 2 | Blue | |
| 3 | White/Black | |
| 4 | Red/Black | |
| 5 | Green/Black | |
| 6 | Orange/Black | |
| 7 | Blue/Black | |
| 8 | Black/White | |
| 9 | Green/Yellow | |
| 10 | Red | |
| 11 | White | |
| 12 | Black | |

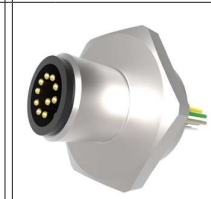
### D3

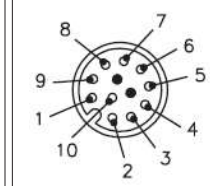


| No. Pins | 8 |
|---|---|
| Max Voltage | 60v |
| Connector | M12 |

| | | |
|---|---|---|
| 1 | White | |
| 2 | Brown | |
| 3 | Green | |
| 4 | Yellow | |
| 5 | Grey | |
| 6 | Pink | |
| 7 | Blue | |
| 8 | Red | |

### D7

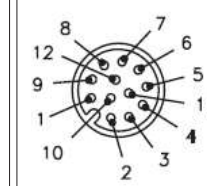




| No. Pins | 10 |
|---|---|
| Max Voltage | 60v |
| Connector | M12 |

| | | |
|---|---|---|
| 1 | White | |
| 2 | Brown | |
| 3 | Green | |
| 4 | Yellow | |
| 5 | Grey | |
| 6 | Pink | |
| 7 | Blue | |
| 8 | Red | |
| 9 | Orange | |
| 10 | Tan | |

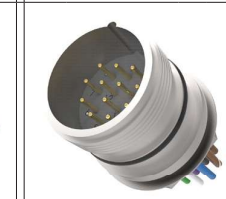
### D8

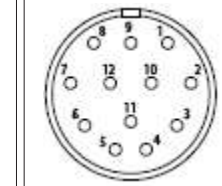


| No. Pins | 12 |
|---|---|
| Max Voltage | 60v |
| Connector | M12 |

| | | |
|---|---|---|
| 1 | White | |
| 2 | Brown | |
| 3 | Green | |
| 4 | Yellow | |
| 5 | Grey | |
| 6 | Pink | |
| 7 | Blue | |
| 8 | Red | |
| 9 | Orange | |
| 10 | Tan | |
| 11 | Black | |
| 12 | Violet | |

### D9

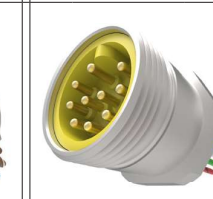


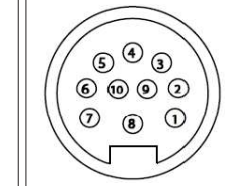


| No. Pins | 12 |
|---|---|
| Max Voltage | 300v |
| Connector | M23 |

| | | |
|---|---|---|
| 1 | Brown | |
| 2 | Brown/White | |
| 3 | Blue | |
| 4 | White | |
| 5 | Green | |
| 6 | Yellow | |
| 7 | Grey | |
| 8 | Pink | |
| 9 | Red | |
| 10 | Black | |
| 11 | Violet | |
| 12 | Green/Yellow | |

### E3

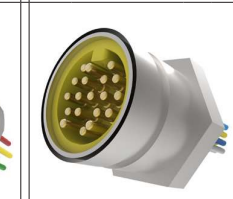


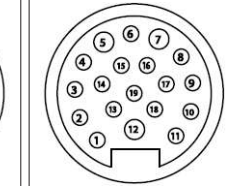


| No. Pins | 10 |
|---|---|
| Max Voltage | 300v |
| Connector | UN2 |

| | | |
|---|---|---|
| 1 | Orange | |
| 2 | Blue | |
| 3 | White/Black | |
| 4 | Red/Black | |
| 5 | Green/Black | |
| 6 | Orange/Black | |
| 7 | Red | |
| 8 | Green/Yellow | |
| 9 | Black | |
| 10 | White | |

### E4

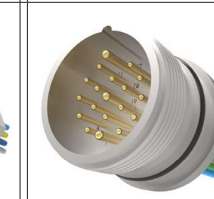


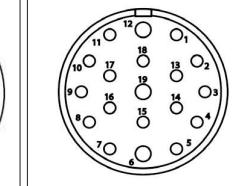


| No. Pins | 19 |
|---|---|
| Max Voltage | 300v |
| Connector | UN2 |

| | | |
|---|---|---|
| 1 | Violet | |
| 2 | Red | |
| 3 | Grey | |
| 4 | Red/Blue | |
| 5 | Blue | |
| 6 | Green | |
| 7 | Brown | |
| 8 | White/Green | |
| 9 | White/Yellow | |
| 10 | White/Grey | |
| 11 | Black | |
| 12 | Green/Yellow | |
| 13 | Yellow/Brown | |
| 14 | Brown/Green | |
| 15 | White | |
| 16 | Yellow | |
| 17 | Pink | |
| 18 | Grey/Brown | |
| 19 | Grey/Pink | |

### F2





| No. Pins | 19 |
|---|---|
| Max Voltage | 300v |
| Connector | M23 |

| | | |
|---|---|---|
| 1 | Violet | |
| 2 | Red | |
| 3 | Grey | |
| 4 | Red/Blue | |
| 5 | Green | |
| 6 | Blue | |
| 7 | Grey/Pink | |
| 8 | White/Green | |
| 9 | White/Yellow | |
| 10 | White/Grey | |
| 11 | Black | |
| 12 | Green/Yellow | |
| 13 | Yellow/Brown | |
| 14 | Brown/Green | |
| 15 | White | |
| 16 | Yellow | |
| 17 | Pink | |
| 18 | Grey/Brown | |
| 19 | Brown | |

## Step 12b: Quick Disconnect Connector Options

| Part No. | T Wiring | | | | | | Left Hand QD | | Right Hand QD | |
|---|---|---|---|---|---|---|---|---|---|---|
| | T | # | # | # | # | # | | | | |

Contact Fortress engineering to be assigned T Wiring number

| | | No. Pins | Connector |
|---|---|---|---|
| 0 | 0 | | |
| D | 1 | 5 | M12 |
| D | 2 | 12 | UN2 |
| D | 3 | 8 | M12 |
| D | 7 | 10 | M12 |
| D | 8 | 12 | M12 |
| D | 9 | 12 | M23 |
| E | 3 | 10 | UN2 |
| E | 4 | 19 | UN2 |
| F | 2 | 19 | M23 |

Left Hand QD

Right Hand QD

Image showing no connectors - 0 0

*pro* 1

***pro*Stop, Slimline *pro*Lok and Slimline *pro*Option Pods can only be configured with 1 connector**