

Craig & Derricott have been at the forefront of electrical control gear design and manufacture for more than 70 years. The i-push range has been designed and developed to incorporate safety, functionality and ease of installation incorporating suggestions from re-sellers and end-users. The 'i-push' range contains many unique features:-

Heavy & Normal Duty Actuators

The 'i-push' range incorporates two distinctly different component series - Heavy Duty & Normal duty.



Heavy Duty

Normal Duty

The Heavy Duty (HD) actuators are manufactured using metal based components and are therefore suitable for use in arduous environments.

The Normal Duty (ND) actuators are manufactured from high strength moulding materials and are suitable for most applications.

(All control stations incorporating Heavy Duty actuators include an 'H' in the first part of the catalogue number i.e. EMSH/T/MG/CO) You will also see an 'HD' in the title bar above each relevant item.

Mechanical Endurance:-

All **HD** assemblies with the exception of Emergency Stops

1x10⁶ operations

HD Emergency Stop (Twist-to-reset & pull-to-reset)

0.25x10⁶ operations

All **ND** assemblies

1x10⁶ operations

Pushbutton Position Indicator

An innovative design feature is included on all 'normal duty' Emergency Stop actuators.

A green segment forms part of the pushbutton moving body and when visible clearly indicates that the actuator has not been operated. When the button has been depressed and the mechanism latched, then the green segment is no longer visible.



Standby mode



Operated & latched

Protective Guard



The 'i-push' Normal Duty range includes actuators with an integral guard.

This will give the control station protection against accidental operation.

Security lid fixings



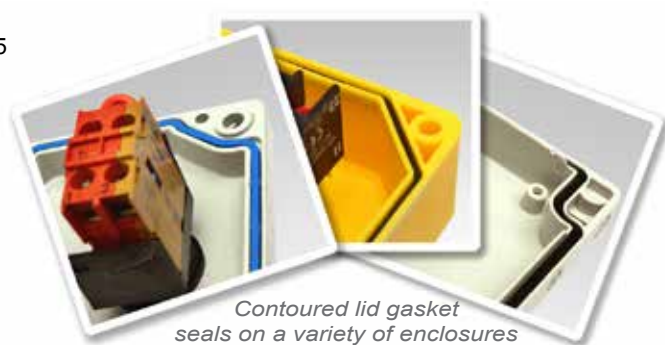
The stainless steel and flush mounting enclosures are supplied as standard with security 'tamper proof' style lid fixings.

Ingress Protection

All i-push control stations are sealed to a minimum of IP65 and suitable for indoor and outdoor applications.



A flexible shroud between the actuator and the enclosure lid assists in meeting the IP69K requirements



Contoured lid gasket seals on a variety of enclosures

To withstand the high pressure water cleaning in certain environments Craig and Derricott has developed a stainless steel control station that complies with IP69K water test. See page 55.

Flap Covers



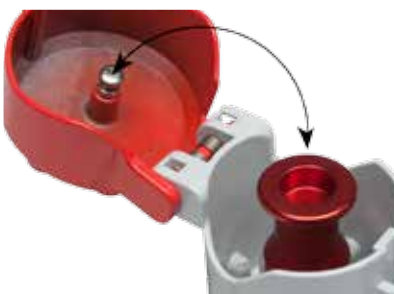
Padlocking flap cover fitted to an 'E. Stop' control station

The Heavy Duty 'i-push' assemblies include actuators with optional flap cover protection, these are manufactured using die-cast aluminium components and can be supplied in locking or non-locking types.

- The *non-locking* flap cover - to provide additional degree of protection against accidental operation of the actuator.
- The *locking* flap cover - includes a padlocking feature for up to three padlocks that prevents access to the actuator.

We recommend using padlocks with a standard shackle diameter of Ø6.4mm

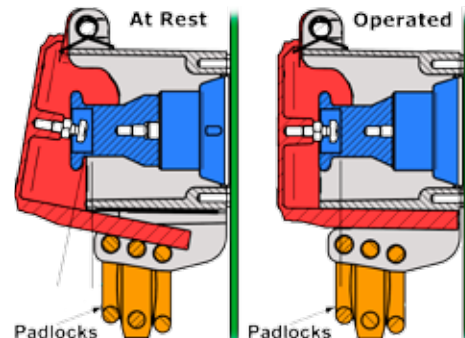
Emergency Stop stations fitted with Flap Covers are used solely to prevent unauthorised resetting. In an emergency situation, having to lift a flap cover to gain access to the pushbutton is not permissible. Should an emergency occur the flap cover itself is used as the primary 'Stop' actuator.



When the flap cover is struck this operates the pushbutton actuator. Once operated the pushbutton will latch and will need resetting by hand before the process can resume.

It's here where the flap cover adds an extra level of safety.

In the normal running condition the flap cover can be fitted with a padlock(s) whilst still allowing the



normal emergency operation. After an emergency operation of the flap cover the padlock will prevent any unauthorised access to reset the actuator.

Safety Contact



Blue 'Safety' Plunger

MTOSFE

Safety contacts are available for Emergency Stop control stations incorporating 'Clip-in' type contact blocks. Here a pair of contact blocks are sandwiched together and the contacts connected in series. When inserted the Red plunger will be operated by the pushbutton actuator, the blue plunger will retain a N/C contact when the block is pushed fully home and clicked in-place.

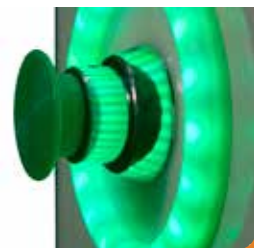
Should for any reason the block become loose, the contact under the blue plunger will open and initiate a stop function.



Bespoke Assemblies



Although this catalogue contains a wealth of options, there will always be the case where a bespoke assembly is the only answer to fulfill a precise requirement. Craig & Derricott has over 60 years experience in designing products to meet a specific need, so why not call our Sales team who will be pleased to discuss your requirements.



General Description

Emergency Stop stations are designed and installed primarily to provide machine operators with a means of shutting down in the event of a dangerous occurrence taking place.



Electrical machines often require Emergency Stops, which are required to meet specific requirements and International standards are applied to the design, testing and installation of such devices. (IEC/EN60204, BS EN ISO 13850, IEC 60947-5-1, IEC 60947-5-5).

The following pages contain the following options:-

- Enclosure formats - PA / PC Plastic, Glass Filled Polyester, Die-cast Aluminium, Stainless Steel, Sheet Steel & Flush Mounting.
- 'Reset' Methods - Twist-to-Reset, Pull-to-Reset & Key Reset
- Protection Devices - Raised Shroud & Flap Cover

Moulded Plastic

IP65

Catalogue No. EMS/TNS/PS/CO ND

- Actuator Emergency Stop, twist-to-reset.
- Legend None
- Contacts 1N/C+1N/O (ET-10A)
- Dims. 'D1'
- Material PA



Catalogue No. EMS/T/PS/CO ND

- Actuator Emergency Stop twist-to-reset.
- Legend 'Emergency Stop' yellow anti-lock collar.
- Contacts 1N/C+1N/O (ET-10A)
- Dims. 'D1'
- Material PA



Catalogue No. EMS/TS/PS/CO ND

- Actuator Emergency Stop twist-to-reset.
- Guard Raised shroud
- Legend None
- Contacts 1N/C+1N/O (ET-10A)
- Dims. 'D1'
- Material PA



Catalogue No. EMS/K/PS/CO ND

- Actuator Emergency Stop key reset (supplied with 2 keys)
- Legend 'Emergency Stop' yellow anti-lock collar.
- Contacts 1N/C+1N/O (ET-10A)
- Dims. 'D1'
- Material PA



Catalogue No. EMS/T/P/NC ND

- Actuator Emergency Stop, twist-to-reset.
- Legend Circular yellow
- Contacts 1N/C (MT-16A)
- Dims. 'D2'
- Material PC



Catalogue No. EMS/TS/P/NC ND

- Actuator Emergency Stop twist-to-reset.
- Legend Circular yellow
- Guard Raised shroud
- Contacts 1N/C (MT-16A)
- Dims. 'D2'
- Material PC



Catalogue No. EMS/K/P/NC ND

- Actuator Emergency Stop key reset. (Supplied with 2 keys)
- Legend 'Emergency Stop' yellow anti-lock collar.
- Contacts 1N/C (MT-16A)
- Dims. 'D2'
- Material PC



Catalogue No. EMS/KS/P/NC ND

- Actuator Emergency Stop key reset. (Supplied with 2 keys)
- Guard Raised shroud
- Legend Circular yellow
- Contacts 1N/C (MT-16A)
- Dims. 'D2'
- Material PC



Die-Cast Aluminium

IP65

Catalogue No. EMS/T/MG/NC ND

- Actuator Emergency Stop twist-to-reset.
- Legend Printed collar
- Contacts 1N/C (MT-16A)
- Dims. 'D5'



Catalogue No. EMS/T/MGS/CO ND

- Actuator Emergency Stop, twist-to-reset
- Legend Printed collar
- Contacts 1N/C + 1N/O (ET-10A)
- Dims. 'D0'



Catalogue No. EMS/K/MG/NC ND

- Actuator Emergency Stop, key reset. (Supplied with 2 keys)
- Legend Printed collar
- Contacts 1N/C (MT-16A)
- Dims. 'D5'



Catalogue No. EMS/TS/MG/NC ND

- Actuator Emergency Stop, twist-to-reset.
- Guard Raised shroud
- Legend Circular yellow
- Contacts 1N/C (MT-16A)
- Dims. 'D5'



Catalogue No. EMS/KS/MG/NC ND

- Actuator Emergency Stop, key reset. (Supplied with 2 keys)
- Guard Raised shroud
- Legend Circular yellow
- Contacts 1N/C (MT-16A)
- Dims. 'D5'



Catalogue No. EMSH/P/MR/CO HD

- Actuator Mushroom, pull-to-reset.
- Legend Circular yellow.
- Finish Red
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



Catalogue No. EMSH/T/MG/CO HD

- Actuator Mushroom, twist-to-reset.
- Legend Circular yellow
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



Catalogue No. EMSH/P/MG/CO HD

- Actuator Mushroom, pull-to-reset.
- Legend Circular yellow.
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



Catalogue No. EMSH/K/MR/CO HD

- Actuator Mushroom, key reset. (Supplied with 2 x DC800 key, differs available)
- Finish Red
- Legend Circular yellow.
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



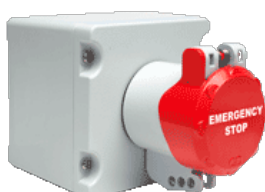
Catalogue No. EMSH/K/MG/CO HD

- Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available)
- Legend Circular yellow.
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



Catalogue No. EMSH/P/F1/MG/CO HD

- Actuator Mushroom, pull-to-reset.
- Guard Padlocking flap cover
- Legend Printed flap cover
- Contacts 1N/O+1N/C (MT-16A)
- Dims. 'D5'



Catalogue No. EMSH/P/F1/MR/CO HD

- Actuator Mushroom, pull-to-reset.
- Guard Padlocking flap cover
- Finish Red
- Legend Printed flap cover
- Contacts 1N/O+1N/C (MT-16A)
- Dims. 'D5'



Emergency Stop



Dims
Page 66

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Glass Filled Polyester

IP65

Catalogue No. EMSH/T/GP/CO HD

- Actuator Mushroom, twist-to-reset.
- Legend Circular yellow
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D4'



Catalogue No. EMSH/P/GP/CO HD

- Actuator Mushroom, pull-to-reset.
- Legend Circular yellow
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D4'



Catalogue No. EMSH/K/GP/CO HD

- Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available)
- Legend Circular yellow
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D4'



Catalogue No. EMSH/P/F1/GP/CO HD

- Actuator Mushroom, pull-to-reset.
- Guard Padlocking flap cover
- Legend Printed flap cover
- Contacts 1N/O+1N/C (MT-16A)
- Dims. 'D4'



Stainless Steel

IP65

Catalogue No. EMS/T/SS/NC ND

- Actuator Emergency Stop twist-to-reset.
- Legend Printed collar
- Finish Brushed
- Lid fixings Security style screws.
- Contacts 1N/C (MT-16A)
- Dims. 'D9'



Catalogue No. EMS/K/SS/NC ND

- Actuator Emergency Stop, key reset. (Supplied with 2 keys)
- Lid fixings Security style screws.
- Finish Brushed
- Legend Printed collar
- Contacts 1N/C (MT-16A)
- Dims. 'D9'



Stainless Steel

IP69K

Catalogue No. EMS/T/SS/NC69 ND

- Actuator Emergency Stop twist-to-reset.
- Legend Yellow circular.
- Sealing IP69K.
- Finish Brushed
- Lid fixings Security style.
- Contacts 1N/C+safety contact (MTOSFE)
- Dims. 'D10'



Sealed to withstand the forces associated with pressure washers. Tested to withstand a hose delivering water at a pressure between 80-100 bar at a temperature of 80°C.

The combination of a stainless steel enclosure and sealing to IP69K make these items ideally suited to environments where strict hygiene cleaning routines are enforced.

Supplied with external fixing feet for vertical or horizontal mounting.



Flush Mounting

IP65

As supplied there is an IP65 seal between the Pushbutton and the face plate. To maintain this seal when installing the complete assembly the onus is upon the installer to use a continuous bead of flexible sealant to provide an effective seal between the rear of the face plate and what may be an uneven mounting surface.

Catalogue No.	EMS/T/F/CO	ND
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- Actuator Emergency Stop twist-to-reset.
- Legend Printed Collar
- Lid fixings Security style
- Contacts 1N/C+1N/O (ET-10A)
- Dims. 'D11'



Catalogue No.	EMS/K/F/CO	ND
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- Actuator Emergency Stop, key reset. (Supplied with 2 keys)
- Legend Printed collar
- Lid fixings Security style
- Contacts 1N/C+1N/O (ET-10A)
- Dims. 'D11'



Catalogue No.	EMSH/T/F/CO	HD
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- Actuator Mushroom, twist-to-reset.
- Legend Yellow circular.
- Lid fixings Security style
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D11'



Catalogue No.	EMSH/P/F/CO	HD
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- Actuator Mushroom, pull-to-reset.
- Legend Yellow circular.
- Lid fixings Security style
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D11'



Catalogue No.	EMSH/K/F/CO	HD
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- Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available)
- Legend Circular yellow.
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D11'



Catalogue No.	EMSH/P/F1/F/CO	HD
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- Actuator Mushroom, pull-to-reset.
- Guard Padlocking flap cover
- Legend Pad printed flap cover
- Contacts 1N/O+1N/C (MT-16A)
- Dims. 'D11'



Sheet Steel

IP65

Catalogue No.	EMS/T/FS/NC	ND
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- Actuator Emergency Stop, twist-to-reset.
- Fitting Pattress box or trucking as shown:-
- Contacts 2xN/C with 'faston' terminals (Monobloc-5A)
- Dims. 'D8'



- Can be installed in dado trucking as shown.



General Description













'Emergency Power Off' or 'EPO' control stations can be used where the safety requirements associated with Emergency Stops are not required. Typical uses would include:-

- Computer suites
- School workshops
- Water treatment plants
- Service and maintenance

All items are housed in robust die-cast aluminium enclosures fitted with flap covers to prevent accidental operation.

Die-Cast Aluminium

IP65

<p>Catalogue No. EPOH/M/F5/MG/CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, momentary action. • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 1N/C+1N/O (MT-16A) • Dims. 'D5' 	<p>Catalogue No. EPOH/M/F5/MG/2CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, momentary action. • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 2N/C+2N/O (MT-16A) • Dims. 'D5' 
<p>Catalogue No. EPOH/M/F5/MGL/3CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, momentary action. • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 3C/O (S1-10A) • Dims. 'D6' 	<p>Catalogue No. EPOH/M/F5/MGL/4CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, momentary action. • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 4C/O (S1-10A) • Dims. 'D6' 
<p>Catalogue No. EPOH/P/F5/MG/CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, pull-to-reset. • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 1N/C+1N/O (MT-16A) • Dims. 'D5' 	<p>Catalogue No. EPOH/P/F5/MG/2CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, pull-to-reset. • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 2N/C+2N/O (MT-16A) • Dims. 'D5' 
<p>Catalogue No. EPOH/P/F5/MGL/3CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, pull-to-reset. • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 3C/O (S1-10A) • Dims. 'D6' 	<p>Catalogue No. EPOH/P/F5/MGL/4CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, pull-to-reset. • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 4C/O (S1-10A) • Dims. 'D6' 
<p>Catalogue No. EPOH/K/F5/MG/CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available) • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 1N/C+1N/O (MT-16A) • Dims. 'D5' 	<p>Catalogue No. EPOH/K/F5/MG/2CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available) • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 2N/C+2N/O (MT-16A) • Dims. 'D5' 
<p>Catalogue No. EPOH/K/F5/MGL/3CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available) • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 3C/O (S1-10A) • Dims. 'D6' 	<p>Catalogue No. EPOH/K/F5/MGL/4CO HD</p> <ul style="list-style-type: none"> • Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available) • Guard Flap cover non-locking • Legend Printed flap cover • Contacts 4C/O (S1-10A) • Dims. 'D6' 



Die-Cast Aluminium continued

IP65

Catalogue No.	EPO/T/F5/MG/CO	ND
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- Actuator Mushroom twist-to-reset.
- Guard Flap cover non-locking.
- Legend Printed flap cover.
- Contacts 1N/C + 1N/O (MT-16A)
- Dims 'D5'



Catalogue No.	EPO/K/F5/MG/CO	ND
---------------	----------------	----

- Actuator Mushroom key reset.
- Guard Flap cover non-locking.
- Legend Printed flap cover.
- Contacts 1N/C + 1N/O (MT-16A)
- Dims 'D5'



Catalogue No.	EPO/T/F5/MGS/CO	ND
---------------	-----------------	----

- Actuator Twist-to-reset
- Guard Flap cover
- Legend Printed flap cover
- Contacts 1NC + 1N/O (ET-10A)
- Dims 'D0'



Catalogue No.	EPO/K/F5/MGS/CO	ND
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- Actuator Key Reset
- Guard Flap cover
- Legend Printed flap cover
- Contacts 1NC + 1N/O (ET-10A)
- Dims 'D0'



EPO - Emergency Stop/Start

General Description

'Emergency Stops' are often situated adjacent to the associated 'Start' button. In these assemblies the two functions are combined in a single enclosure.

All of the stayput 'Emergency Stop' buttons meet the latest safety requirements.

The flap cover option operates the stayput actuator when the cover is pressed. Padlocks can be inserted to prevent an unauthorised reset. Enclosures in polycarbonate and die-cast aluminium provide a choice dependent upon the environment.

Die-Cast Aluminium

IP65

Catalogue No.	ESS/GS/T/MG/NOC	ND
---------------	-----------------	----

- Actuator a/ Start, momentary
b/ Emergency Stop, twist-to-reset.
- Legend a/ 'I' Start
b/ Printed collar
- Contacts 1N/O+1N/C (MT-16A)
- Dims. 'D7'



Catalogue No.	ESSH/GS/P/MG/CO	HD
---------------	-----------------	----

- Actuator a/ Start, momentary
b/ Emergency Stop, pull-to-reset.
- Legend a/ 'Start'
b/ Circular yellow
- Contacts 1N/O+1N/C (MT-16A)
- Dims. 'D7'



Catalogue No.	SSTH/GS/P/F1/MG/CO	HD
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- Actuator a/ Start, momentary
b/ Emergency Stop, pull-to-reset.
- Guard Padlocking flap cover
- Legend a/ 'Start'
b/ Printed flap cover
- Contacts 1N/O+1N/C (MT-16A)
- Dims. 'D7'



Moulded Plastic

IP65

Catalogue No.	ESS/GS/T/P/NOC	ND
---------------	----------------	----

- Actuator a/ Start, momentary
b/ Emergency Stop, twist-to-reset.
- Legend a/ 'I' Start
b/ Printed collar
- Contacts 1N/O+1N/C (MT-16A)
- Dims. 'D3'



General Description

Individual 'Stop' stations have been designed for use in many applications.

The range includes alternatives for both surface and flush mounting with options of flap covers which add an extra degree of security against inadvertent operation.

Moulded Plastic

IP65

Catalogue No.	STO/RS/P/NC	ND
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- Actuator Full guard, momentary.
- Legend 'Stop'
- Contacts 1N/C (MT-16A)
- Dims. 'D2'
- Material PC



Die-Cast Aluminium

IP65

Catalogue No.	STO/RS/MG/NC	ND
---------------	--------------	----

- Actuator Full guard, momentary.
- Legend 'Stop'
- Contacts 1N/C (MT-16A)
- Dims. 'D5'



Catalogue No.	STOH/P/F3/MG/CO	HD
---------------	-----------------	----

- Actuator Mushroom, pull-to-reset
- Guard Flap cover non locking
- Legend Printed flap cover
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



Catalogue No.	STOH/K/F3/MG/CO	HD
---------------	-----------------	----

- Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available)
- Guard Flap cover non locking
- Legend Printed flap cover
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



Catalogue No.	STOH/P/F3/MR/CO	HD
---------------	-----------------	----

- Actuator Mushroom, pull-to-reset
- Guard Flap cover non locking
- Legend Printed flap cover
- Finish Red
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



Catalogue No.	STOH/RS/MG/CO	HD
---------------	---------------	----

- Actuator Full guard, momentary.
- Legend 'Stop'
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



Catalogue No.	STOH/M/MG/CO	HD
---------------	--------------	----

- Actuator Mushroom, momentary.
- Legend 'Stop'
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



Catalogue No.	STOH/M/F3/MG/CO	HD
---------------	-----------------	----

- Actuator Mushroom, momentary
- Guard Flap cover non locking
- Legend Printed flap cover
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D5'



Glass Filled Polyester

IP65

Catalogue No. **STOH/M/F3/GP/CO** HD

- Actuator Mushroom, momentary
- Guard Flap cover non-locking
- Legend Printed flap cover
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D4'



Catalogue No. **STOH/P/F3/GP/CO** HD

- Actuator Mushroom, pull-to-reset
- Guard Flap cover non-locking
- Legend Printed flap cover
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D4'



Catalogue No. **STOH/K/F3/GP/CO** HD

- Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available)
- Guard Flap cover non-locking
- Legend Printed flap cover
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D4'



Stainless Steel

IP65

Catalogue No. **STO/RS/SS/NC** ND

- Actuator Full guard, momentary.
- Legend 'Stop'
- Contacts 1N/C (MT-16A)
- Dims. 'D9'



Flush Mounting

IP65

As supplied there is an IP65 seal between the Pushbutton and the face plate. To maintain this seal when installing the complete assembly the onus is upon the installer to use a continuous bead of flexible sealant to provide an effective seal between the rear of the face plate and what may be an uneven mounting surface.

Catalogue No. **STO/RS/F/CO** ND

- Actuator Full guard, momentary.
- Legend 'Stop'
- Contacts 1N/C+1N/O (ET-1A)
- Dims. 'D11'



Catalogue No. **STOH/P/F3/F/CO** HD

- Actuator Mushroom, pull-to-reset
- Guard Flap cover non locking
- Legend Printed flap cover
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D11'



Catalogue No. **STOH/M/F3/F/CO** HD

- Actuator Mushroom, momentary
- Guard Flap cover non locking
- Legend Printed flap cover
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D11'



Catalogue No. **STOH/K/F3/F/CO** HD

- Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available)
- Guard Flap cover non locking
- Legend Printed flap cover
- Contacts 1N/C+1N/O (MT-16A)
- Dims. 'D11'



Stop



Dims
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General Description

Individual 'Start' stations have been designed for use in many applications.

Moulded Plastic

IP65

Catalogue No.	STA/GS/P/NO	ND
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- Actuator Full guard, momentary.
- Legend 'Start'
- Contacts 1N/O (MT-16A)
- Dims. 'D2'
- Material PC



Die-Cast Aluminium

IP65

Catalogue No.	STA/GS/MG/NO	ND
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- Actuator Full guard, momentary.
- Legend 'Start'
- Contacts 1N/O (MT-16A)
- Dims. 'D5'



Catalogue No.	STAH/GS/MG/CO	HD
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- Actuator Full guard, momentary.
- Legend 'Start'
- Contacts 1N/O (MT-16A)
- Dims. 'D5'



Stainless Steel

IP65

Catalogue No.	STA/GS/SS/NO	ND
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- Actuator Full guard, momentary.
- Legend 'Start'
- Contacts 1N/O (MT-16A)
- Dims. 'D9'



Flush Mounting

IP65

As supplied there is an IP65 seal between the Pushbutton and the face plate. To maintain this seal when installing the complete assembly the onus is upon the installer to use a continuous bead of flexible sealant to provide an effective seal between the rear of the face plate and what may be an uneven mounting surface.

Catalogue No.	STA/GS/F/NO	ND
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- Actuator Full guard, momentary.
- Legend 'Start'
- Contacts 1N/O (ET-10A)
- Dims. 'D11'



General Description

'Start/Stop' control stations are the most convenient way of providing simple local control for a variety of applications. When inserted into a control scheme they provide the local interface with which machinery can be easily be controlled.

The assembled stations are offered in various enclosure materials which are designed to match applications in terms of mechanical protection.

Moulded Plastic

IP65

Catalogue No. **SST/GS/RS/P/NOC** ND

- Actuator Full guard, momentary.
- Legend 'O' & 'I'
- Contacts 'I' - 1N/O (MT-16A)
'O' - 1N/C (MT-16A)
- Dims. 'D2'
- Material PC



Die-Cast Aluminium

IP65

Catalogue No. **SST/GS/RS/MG/NOC** ND

- Actuator Full guard, momentary.
- Legend 'O' & 'I'
- Contacts 'I' - 1N/O (MT-16A)
'O' - 1N/C (MT-16A)
- Dims. 'D5'



Catalogue No. **SSTH/GS/P/F3/MG/CO** HD

- Actuator a/ Full guard, momentary.
b/ Mushroom, pull-to-reset
- Guard Flap cover non-locking
- Legend a/ 'Start'
b/ Printed flap cover
- Contacts 'Start' - 1N/O (MT-16A)
'Stop' - 1N/C (MT-16A)
- Dims. 'D7'



Catalogue No. **SSTH/GS/RS/MG/CO** HD

- Actuator Full guard, momentary.
- Legend 'Start' & 'Stop'
- Contacts 'Start' - 1N/O (MT-16A)
'Stop' - 1N/C (MT-16A)
- Dims. 'D7'



Catalogue No. **SSTH/GS/K/F3/MG/CO** HD

- Actuator a/ Full guard, momentary
b/ Mushroom, key reset.
(Supplied with 2 x DC801 keys, differs available)
- Guard Flap cover non-locking
- Legend a/ 'Start'
b/ Printed flap cover
- Contacts 'Start' - 1N/O (MT-16A)
'Stop' - 1N/C (MT-16A)
- Dims. 'D7'



Stainless Steel

IP65

Catalogue No. **SST/GS/RS/SS/NOC** ND

- Actuator Full guard, momentary.
- Legend 'O' & 'I'
- Contacts 'I' - 1N/O (MT-16A)
'O' - 1N/C (MT-16A)
- Dims. 'D9'



Stop/Start



General Description

In the UK from July 2006 the onus was placed upon companies to ensure that all equipment within their organisations is suitable for the environment in which it is being used. This was aimed primarily at areas where there may be a possibility of a combustible atmosphere being present, even for short periods i.e. less than 10 hours/year.

People normally associate such atmospheres as being gases, mists or vapours. However there are many industries where a non-conductive dust mixed with air in the right proportion can become potentially explosive. It is these areas where the Craig & Derricott ATEX Group II (Zone 22 equipment) can be used to help you comply with Health & Safety regulations. All listed items show here have been certified to the appropriate international standards for explosive atmospheres.

Certification data:











Ex II 3D, EX tD A22 IP65 T85°C

Complies in part or full with:

BS EN 50014, BS EN 50281-1-1, BS EN 60529, BS EN 60947-3, BS EN 60204-1

Die-Cast Aluminium

IP65

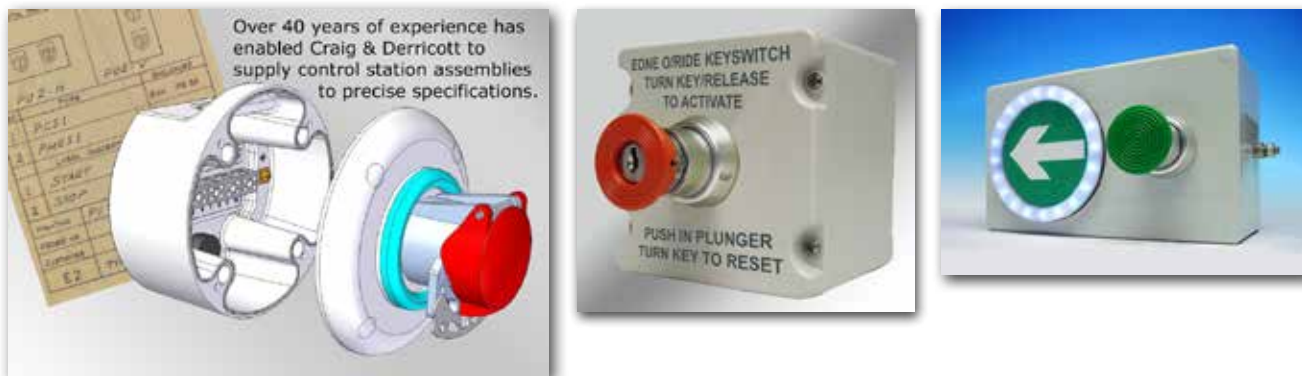
Catalogue No.	STOH/RS/MG/COZ	HD	Catalogue No.	STAH/GS/MG/COZ	HD
<ul style="list-style-type: none"> Actuator Full guard, momentary. Legend 'Stop' Contacts 1N/O+1N/C (MT-16A) Dims. 'D2' 			<ul style="list-style-type: none"> Actuator Full guard, momentary. Legend 'Start' Contacts 1N/O+1N/C (MT-16A) Dims. 'D5' 		
Catalogue No.	SSTH/GS/RS/MG/COZ	HD	Catalogue No.	EMSH/T/MG/COZ	HD
<ul style="list-style-type: none"> Actuator Full guard, momentary. Legend 'Start' & 'Stop' Contacts 'Start' - 1N/O (MT-16A) 'Stop' - 1N/C (MT-16A) Dims. 'D7' 			<ul style="list-style-type: none"> Actuator Mushroom, twist-to-reset Legend Circular yellow Contacts 1N/O+1N/C (MT-16A) Dims. 'D5' 		
Catalogue No.	STOH/M/MG/COZ	HD	Catalogue No.	ESSH/GS/P/MG/COZ	HD
<ul style="list-style-type: none"> Actuator Mushroom, momentary. Legend 'Stop' Contacts 1N/O+1N/C (MT-16A) Dims. 'D5' 			<ul style="list-style-type: none"> Actuator a/ Start, momentary b/ Emergency stop, pull-to-reset. Legend a/ 'Start' b/ Circular yellow Contacts 'Start' - 1N/O (MT-16A) 'Em. Stop' - 1N/C (MT-16A) Dims. 'D7' 		
Catalogue No.	SSTH/GS/P/F1/MG/COZ	HD	Catalogue No.	EMSH/P/F1/MG/COZ	HD
<ul style="list-style-type: none"> Actuator a/ Start, momentary b/ Emergency stop, pull-to-reset. Guard Padlocking flap cover Legend a/ 'Start' b/ Printed flap cover Contacts 'Start' - 1N/O (MT-16A) 'Stop' - 1N/C (MT-16A) Dims. 'D7' 			<ul style="list-style-type: none"> Actuator Emergency stop, pull-to-reset. Start, momentary Guard Padlocking flap cover Legend Printed flap cover Contacts 1N/O+1N/C (MT-16A) Dims. 'D5' 		
Catalogue No.	EMSH/P/MG/COZ	HD	Catalogue No.	EMSH/K/MG/COZ	HD
<ul style="list-style-type: none"> Actuator Mushroom, pull-to-reset. Legend Circular yellow Contacts 1N/C+1N/O (MT-16A) Dims. 'D5' 			<ul style="list-style-type: none"> Actuator Mushroom, key reset. (Supplied with 2 x DC800 keys, differs available) Legend Circular yellow Contacts 1N/C+1N/O (MT-16A) Dims. 'D5' 		



Bespoke Assemblies

All of the items shown in this catalogue are of a specified design, and although the variations are extensive, there is always going to be the case where only a specially constructed assembly will satisfy an exact requirement. Craig & Derricott have been offering a bespoke control station design and build service for over 70 years and in that time have supplied over a thousand specially constructed assemblies to industries across the world.

If you are interested in discussing a specific arrangement then please give our technical sales staff a call.




Accessories

Contact blocks are available to replace or extend the arrangements supplied as standard.

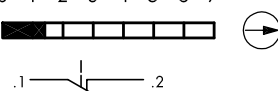
'MT' Series

The 'MT' series are designed as 'clip-in' modules which can be supplied in N/O, N/C & safety formats. The clip-in housing allows for a total of three blocks per actuator.

Catalogue No. **MTO**




0 1 2 3 4 5 6 7
.1/.2

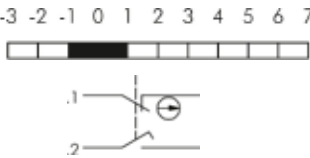


Normally Closed (N/C) contact block. Momentary action.

Catalogue No. **MTOSFE**




-3 -2 -1 0 1 2 3 4 5 6 7
.1/.2

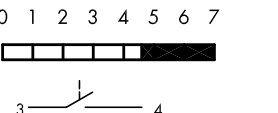


'Safety Contact' for Emergency Stops.

Catalogue No. **MTI**



0 1 2 3 4 5 6 7
.3/.4



Normally Open (N/O) contact block. Momentary action.

Electrical Ratings - BS EN 60947-5-1

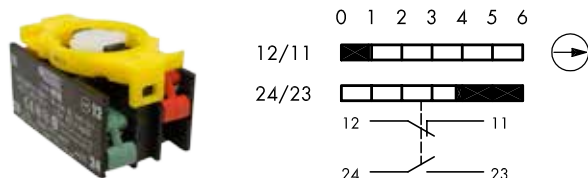
	a.c	d.c
Utilisation Category	AC15 A600	DC13 Q600
Rated Insulation Voltage (Ui)	600V	600V
Rated Operational Voltage (Ue)	250V / 440V	440V / 250V / 125V / 60V / 24V
Rated Operational Current (Ie)	3A / 1.6A	0.12A / 0.2A / 0.4A / 1A / 2A
Breaking Capacity	10I _e	1.1I _e
Continuous thermal current (Ith)	16A	16A



'ET' Series

The 'ETR' block provides N/O + N/C contacts in one assembly.

Catalogue No.	ETR
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Contact Block, Momentary Action 1 N/O + 1 N/C

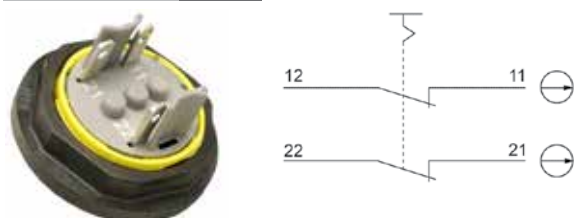
Electrical Ratings - BS EN 60947-5-1

	a.c	d.c
Utilisation Category	AC15	DC13
Rated Insulation Voltage (Ui)	400V	400V
Rated Operational Voltage (Ue)	400V / 250V	400V / 250V / 125V / 60V / 24V
Rated Operational Current (Ie)	3A / 5A	0.12A / 0.2A / 0.4A / 1A / 2A
Breaking Capacity	10Ie	1.1Ie
Continuous thermal current (Ith)	10A	10A

'Monobloc' Series

The Monobloc assembly is designed for use in very restricted space. The contacts are assembled in the base of the actuator and cannot be supplied separately. To replace the contacts will require a new complete actuator.

Catalogue No.	FRVKOO
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Contact Block, Momentary Action 2 N/C

Electrical Ratings - BS EN 60947-5-1

	a.c
Utilisation Category	AC15 B300
Rated Insulation Voltage (Ui)	250V
Rated Operational Voltage (Ue)	240V / 120V
Rated Operational Current (Ie)	5A
Continuous thermal current (Ith)	10A

'S1' Series

The S1 contact block is designed to be stacked in pairs side-by-side and then back-to-back making a total on four changeover blocks on one Heavy Duty actuator. Three or four blocks will require extended fixing screws (U42)

Catalogue No.	S1
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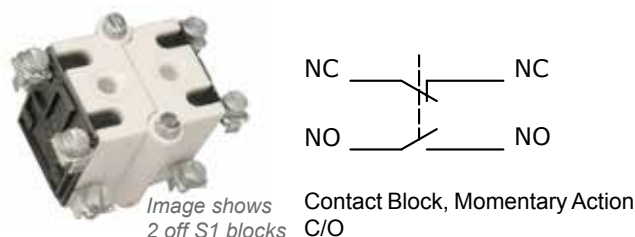


Image shows 2 off S1 blocks

Contact Block, Momentary Action C/O

Electrical Ratings - BS EN 60947-5-1

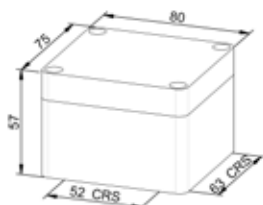
	a.c
Utilisation Category	AC15
Rated Insulation Voltage (Ui)	660V
Rated Operational Voltage (Ue)	400V
Rated Operational Current (Ie)	5A
Continuous thermal current (Ith)	10A

Catalogue No.	U42
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Assembly screw kit to enable 3 or 4 'S1' contacts to be mounted on a single Heavy Duty actuator.

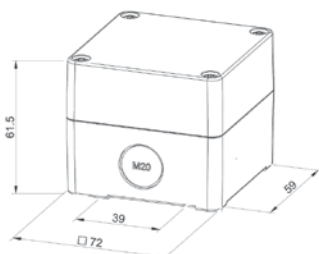
Dims as shown are for the enclosures only used in the various assemblies. Projections will vary depending upon the actuators incorporated in the design - see foot of page.

D0



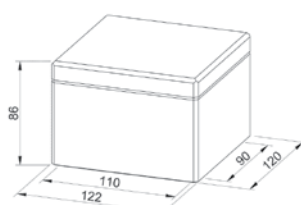
Material: Die-cast Aluminium
Colour: Grey (RAL 7001)
Entries: Plain sides
Fixings: 2xM4

D1



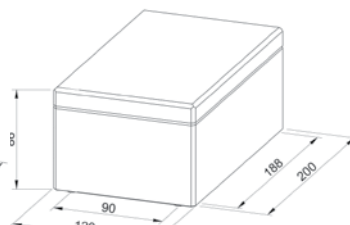
Material: Polycarbonate
Colour: Yellow/Black
Entries: 2xM20
Fixings: 2xM4

D2



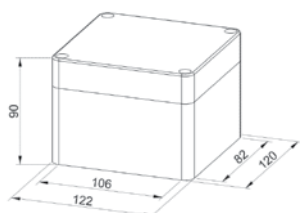
Material: Polycarbonate
Colour: Grey (RAL 7035)
Entries: Plain sides
Fixings: 4xM4

D3



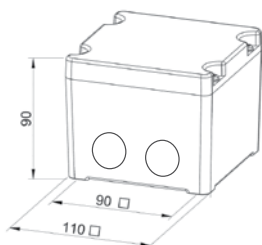
Material: Polycarbonate
Colour: Grey (RAL 7035)
Entries: Plain sides
Fixings: 4xM4

D4



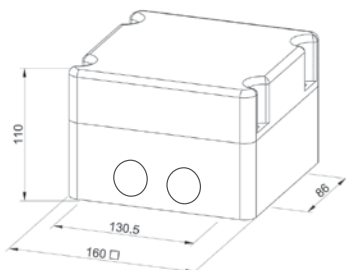
Material: Glass reinforced Polyester
Colour: Grey (RAL 7000)
Entries: Plain sides
Fixings: 4xM5

D5



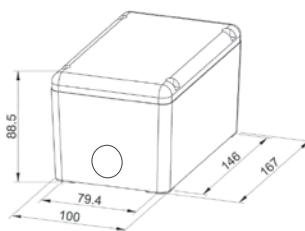
Material: Die-cast Aluminium
Colour: Grey (RAL 7035)
Red (RAL 3020)
Entries: 2xM20
Fixings: 4xM5

D6



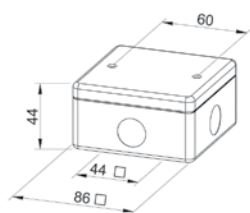
Material: Die-cast Aluminium
Colour: Grey (RAL 7035)
Entries: 2xM20
Fixings: 4xM5

D7



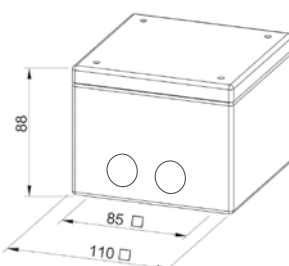
Material: Die-cast Aluminium
Colour: Grey (RAL 7035)
Entries: 2xM20
Fixings: 4xM5

D8



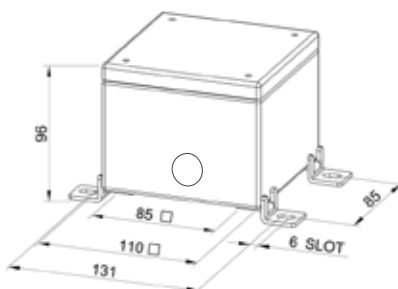
Material: Steel
Colour: Silver
Entries: 5xM20 knockouts
Fixings: 4 off 5x10 slots

D9



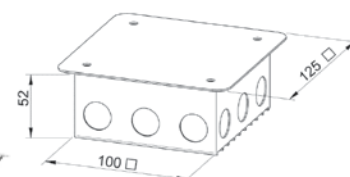
Material: Stainless steel (Grade 304)
Finish: Brushed
Entries: 2xM20
Fixings: 4xM6

D10



Material: Stainless steel (Grade 304)
Finish: Brushed
Entries: 1xM20
Fixings: 4xM6

D11



Material: Fascia plate - Stainless Steel
Back box - Galvanised steel
Finish: Fascia plate - Brushed
Entries: 9xM20 knockouts
Fixings: 4xM5

Actuator Projections

Normal Duty Actuators (ND)	Emergency Stop (incl. guards)	42mm
	Start/Stop	11mm
Heavy Duty Actuators (HD)	Mushroom (Twist or pull to reset)	43mm
	Mushroom (Key reset)	51mm
	Full guard (Start/Stop)	30mm
	Flap Cover	66mm

