Technical Data Sheet Emergency Stop Control Station Range

CDPD90 Issue 5

Emergency Stop

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 (IEC/EN60204, BS EN ISO 13850, IEC 60947-5-1, IEC 60947-5-5). These standards were applied to the design, testing and installation of such devices offer by Craig & Derricott.

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
 Actuators Heavy (HD) & Normal Duty (ND)

Image		Cat. No.		
	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop, twist-to-reset None 1N/C (EMSL Base Mount) D12 PC/PA IP66, IP67 & IP69K	ND	EMSL/TNS/PS/NC
Actuator Legend Contacts Dimensions Enclosure Material IP Rating		Emergency Stop twist-to-reset Emergency Stop Circular yellow 1N/C (EMSL Base Mount) D12 PC/PA IP66, IP67 & IP69K	ND	EMSL/T/PS/NC
ENGENOE STOP	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop key reset (2 Keys) Emergency Stop Circular yellow 1N/C (EMSL Base Mount) D12 PC/PA IP66, IP67 & IP69K	ND	EMSL/K/PS/NC
EMERU.	Actuator Legend Guard Contacts Dimensions Enclosure Material IP Rating	Emergency Stop twist-to-reset Emergency Stop Circular yellow Raised shroud 1N/C (EMSL Base Mount) D12 PC/PA IP66, IP67 & IP69K	ND	EMSL/TS/PS/NC
CO CANGE	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop, twist-to-reset Emergency Stop Circular yellow 1N/C (EMSL Lid Mount) D2 PC IP65	ND	EMSL/T/P/NC
COCAMA	Actuator Legend Guard Contacts Dimensions Enclosure Material IP Rating	Emergency Stop twist-to-reset None Raised shroud 1N/C (EMSL Lid Mount) D2 PC IP65	ND	EMSL/TS/P/NC
C CAMPA C CAMPA	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop key reset. (2 Keys) Emergency Stop Circular yellow 1N/C (EMSL Lid Mount) D2 PC IP65	ND	EMSL/K/P/NC



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Image			Cat. No.	
CP CRAIGA COSCOSTI	Actuator Legend Guard Contacts Dimensions Enclosure Material IP Rating	Emergency Stop key reset. (2 Keys) None Raised shroud 1N/C (EMSL Lid Mount) D2 PC IP65	ND	EMSL/KS/P/NC
CENTRAL CONTROL CONTRO	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop twist-to-reset Emergency Stop Circular yellow 1N/C (EMSL Lid Mount) D5 Die-cast Aluminium IP65	ND	EMSL/T/MG/NC
CP CRAIGA MESSOOTI	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop key reset (2 Keys) Emergency Stop Circular yellow 1N/C (EMSL Lid Mount) D5 Die-cast Aluminium IP65	ND	EMSL/K/MG/NC
CD CRAIGE	Actuator Legend Guard Contacts Dimensions Enclosure Material IP Rating	Emergency Stop twist-to-reset None Raised Shroud 1N/C (EMSL Lid Mount) D5 Die-cast Aluminium IP65	ND	EMSL/TS/MG/NC
CED CRAIGE	Actuator Legend Guard Contacts Dimensions Enclosure Material IP Rating	Emergency Stop key reset (2 Keys) None Raised Shroud 1N/C (EMSL Lid Mount) D5 Die-cast Aluminium IP65	ND	EMSL/KS/MG/NC
O STO	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop, twist-to-reset Emergency Stop Circular yellow 1N/C (EMSL Lid Mount) D0 Die-cast Aluminium IP65	ND	EMSL/T/MGS/NC
O STO	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop, key reset (2 Keys) Emergency Stop Circular yellow 1N/C (EMSL Lid Mount) D0 Die-cast Aluminium IP65	ND	EMSL/K/MGS/NC
OF STORY	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop, key reset (2 Keys) Emergency Stop Circular yellow 1N/C (EMSL Lid Mount) D0 Die-cast Aluminium IP65	ND	emsl/k/mrs/nc
CP CRAIGE OF CRA	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop, twist-to-reset Emergency Stop printed yellow collar 1N/C (EMSL Lid Mount) D9 Stainless Steel IP65	ND	EMSL/T/SS/NC



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Image		Description		Cat. No.
CO CRANGE O	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop key reset (2 Keys) Emergency Stop printed yellow collar 1N/C (EMSL Lid Mount) D9 Stainless Steel IP65	ND	EMSL/K/SS/NC
CD CRAIGE OF THE CONTROL OF THE CONT	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop twist-to-reset Emergency Stop Circular yellow 1N/C (EMSL Lid Mount) D11 Stainless Steel IP65	ND	EMSL/T/F/NC
CD SMACA	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop key reset (2 Keys) Emergency Stop Circular yellow 1N/C (EMSL Lid Mount) D11 Stainless Steel IP65	ND	EMSL/K/F/NC
STO STO	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop, twist-to-reset Emergency Stop circular yellow 1N/C + safety contact (EMSL Lid Mount) D10 Stainless Steel IP69K	ND	EMSL/T/SS/NC69
80-100 bar at a temperatu	re of 80°C. The combination	ociated with pressure washers. Tested to withstand of a stainless steel enclosure and sealing to IP69K n upplied with external fixing feet for vertical or horiz	nake these iter	ms ideally suited to environments
	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom twist-to-reset Pattress box or trucking 2xN/C with 'faston' terminals (Monobloc-5A) D8 Sheet Steel IP65	ND	EMS/T/FS/NC
STOP	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom pull-to-reset Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D5 Die-cast Aluminium IP65	HD	EMSH/P/MG/CO
STO STO	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom pull-to-reset Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D5 Die-cast Aluminium IP65	HD	EMSH/P/MR/CO
STO STO	Actuator Legend Contacts Dimensions Enclosure Material	Emergency Stop Mushroom twist-to-reset Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D5 Die-cast Aluminium	HD	EMSH/T/MG/CO



IP Rating

IP65

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				Issue 5
Image		Description		Cat. No.
STOK STOK	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom key reset (2 Keys) Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D5 Die-cast Aluminium IP65	HD	EMSH/K/MG/CO
e stole it	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom key reset (2 Keys) Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D5 Die-cast Aluminium IP65	HD	EMSH/K/MR/CO
EMERCENCY	Actuator Legend Guard Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom pull-to-reset Emergency Stop printed flap cover Padlocking flap cover 1N/C+1N/O (MT-16A) D5 Die-cast Aluminium IP65	HD	EMSH/P/F1/MG/CO
DIESCENCY STOP	Actuator Legend Guard Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom pull-to-reset Emergency Stop printed flap cover Padlocking flap cover 1N/C+1N/O (MT-16A) D5 Die-cast Aluminium IP65	HD	EMSH/P/F1/MR/CO
STOP	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom twist-to-reset Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D4 Glass Filled Reinforced Polyester IP65	HD	EMSH/T/GP/CO
STOP STOP	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom pull-to-reset Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D4 Glass Filled Reinforced Polyester IP65	HD	EMSH/P/GP/CO
STO STO	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom key reset (2 Keys) Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D4 Glass Filled Reinforced Polyester IP65	HD	EMSH/K/GP/CO
EMERGENCY STOP	Actuator Legend Guard Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom pull-to-reset Emergency Stop printed flap cover Padlocking flap cover 1N/C+1N/O (MT-16A) D4 Glass Filled Reinforced Polyester IP65	HD	EMSH/P/F1/GP/CO
STOP 4	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom twist-to-reset Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D11 Stainless Steel IP65*	HD	EMSH/T/F/CO



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lmage		Cat. No.		
STOR 2	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom pull-to-reset Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D11 Stainless Steel IP65*	HD	EMSH/P/F/CO
STOR A	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	Emergency Stop Mushroom key reset (2 Keys) Emergency Stop circular yellow 1N/C+1N/O (MT-16A) D11 Stainless Steel IP65*	HD	EMSH/K/F/CO
Actuator Legend Guard Contacts Dimensions Enclosure Material		Emergency Stop Mushroom pull-to-reset Padlocking flap cover Emergency Stop pad printed flap cover 1N/C+1N/O (MT-16A) D11 Stainless Steel IP65*	HD	EMSH/P/F1/F/CO

^{*}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.

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.

Image		Cat. No.		
CP CRAIGE (Actuator Legend Contacts Dimensions Enclosure Material IP Rating	a/ Start, momentary b/ Emergency Stop, twist-to-reset a/ I b/ Emergency Stop Circular yellow 1N/C+1N/O (EMSL Lid Mount) D7 Die-cast Aluminium IP65	ND	ESSL/GS/T/MG/NOC
	Actuator Legend Contacts Dimensions Enclosure Material IP Rating	a/ Start, momentary b/ Emergency Stop, twist-to-reset a/ I b/ Emergency Stop Circular yellow 1N/C+1N/O (EMSL Lid Mount) D3 Moulded Plastic IP65	ND	ESSL/GS/T/P/NOC
START	Actuator Legend Guard Contacts Dimensions Enclosure Material IP Rating	a/ Start, momentary b/ Emergency Stop, pull-to-reset a/ Start b/ Emergency Stop Printed flap cover Padlocking flap cover 1N/C+1N/O (MT-16A) D7 Die-cast Aluminium IP65	HD	SSTH/GS/P/F1/MG/CO



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Image		Description						
START	Actuator	a/ Start, momentary b/ Emergency Stop, mushroom pull-to-reset	HD					
a ERGENO	Legend Contacts	a/ Start b/ Emergency Stop Circular yellow 1N/C+1N/O (MT-16A)		ESSH/GS/P/MG/CO				
	Dimensions	D7						
STOP	Enclosure Material	Die-cast Aluminium						
	IP Rating	IP65						

Accessories

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

A 'clip-in' mod	MT Series A 'clip-in' module which can be supplied in N/O, N/C & safety formats. The clip-in housing allows for a total of three blocks per actuator.									
Image	Description	Cat. No.								
	Normally Closed (N/C) contact block. Momentary action. 0 1 2 3 4 5 6 7 .1/.2	МТО								
The second secon	'Safety Contact' for Emergency Stops.	MTOSFE								
100000	Normally Open (N/O) contact block. Momentary action. 0 1 2 3 4 5 6 7 .3/.4	MTI								

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.

Image	Description	
	Contact Block, Momentary Action 2 N/C 12 11 0 22 21 0	FRVKOO

EMSL 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.

Image	Description	Cat. No.	Image Description			Cat. No.	
	Base mounted normally closed contact block Screw termination Direct snap-on mounting to control station base Maximum tightening torque for screw terminals: 1Nm	1 👉 🕀	EMSL/NC		Lid mounted normally closed contact block	$\bigvee_{2}^{1} \ominus$	CB1NC
	Base mounted normally open contact block Screw termination Direct snap-on mounting to control station base Maximum tightening torque for screw terminals: 1Nm	3	EMSL/NO	10	Lid mounted normally open contact block Screw termination Direct snap-on mounting to control station actuator Maximum tightening torque for screw terminals: 1Nm	3	CB1NO



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Accessories

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

Image	Description						
	Lid mounted normally closed safety contact block available for Emergency Stop control stations. When inserted the Red plunger will be operated by the pushbutton actuator, the green 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 green plunger will open and initiate a stop function. Screw termination Direct snap-on mounting to control station actuator Maximum tightening torque for screw terminals: 1Nm	.3 .1	CB01NCSM				

Technical Specification - Control Stations

Data supplied against tests to BS EN 60947-5-1

Series	Current	Utilisation Category	Rated Insulation Voltage (U _i)		Rated Operational Voltage (U _e) / Current (I _e)								Breaking Capacity	Continuous thermal current (I _{th})								
		AC1E AC00	6001	V	-	-	-	-	250	440	-	-	-	101-	164							
, AT	a.c.	AC15 A600	600V	А	-	-	-	-	3	1.6	-	-	-	10le	16A							
MT	d.c DC13 Q60			COOM	V		24	60	125	250	440				1.11	164						
		DC13 Q600	600V	А		2	1	0.4	0.2	0.12				1.1le	16A							
		1015 0000	250V 250V	V	-	-	-	120	240	-	-	-	-		404							
Mono bloc	a.c.	AC15 B300		А	-	-	-	5	5	-	-	-	-	-	10A							
		1015	5001/	V	12	24	48	120	240	400	480	500	600	4.01	101							
51.461	a.c	AC15	AC15	AC15	690V	6900	6907	6900	6900	6900	А	6	6	6	6	6	3	1.5	1.4	1.2	10le	10A
EMSL		.c DC13	5001/	V	12	24	48	125	250	440	-	500	600	4.41	10.							
	d.c		DC13	DC13	DC13	DC13	DC13	DC13	690V	А	3	3	1.5	0.55	0.27	0.15	-	0.13	0.1	1.1le	10A	



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Control Stations

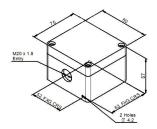
Dims as shown are for the enclosures only used in the various assemblies. Projections will vary depending upon the actuators incorporated in the design.

Normal Duty Actuators (ND) Emergency Stop (incl. guards) 42mm 11mm

Start/Stop

Heavy Duty Actuators (HD) Mushroom (Twist or pull to reset)

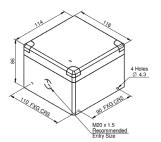
43mm Mushroom (Key reset) 51mm Full guard (Start/Stop) 30mm Flap Cover 66mm



Enclosure D0

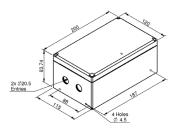
Material Die-Cast Aluminium Grey (RAL 7001) Colour

Entries 1 x M20 Fixings 2 x M4



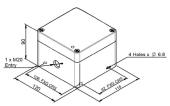
Enclosure D2

Material Polycarbonate Grey (RAL 7035) Colour Entries Plain sides Fixings 2 x M4



Enclosure D3

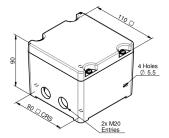
Material Polycarbonate Grey (RAL 7035) Colour Entries Plain sides Fixings 4 x M4



Enclosure D4

Material Glass reinforced

Polvester Colour Grey (RAL 7001) Entries 1 x M20 Fixings 4 x M5

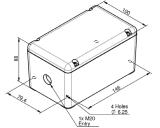


Enclosure D5

Material Die-Cast Aluminium Grey (RAL 7035) Colour

Red (RAL 3020) 2 x M20

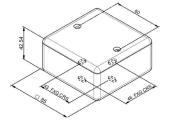
Entries Fixings 4 x M5



Enclosure D7

Material Die-Cast Aluminium Colour Grey (RAL 7035)

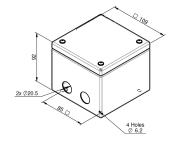
Entries 1 x M20 Fixings 4 x M5



Enclosure D8 Material Steel

Colour Silver

Entries 5 x M20 knockouts 4 off 5 x 10 slots **Fixings**

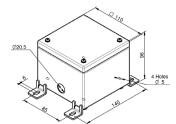


Enclosure D9

Material Stainless Steel

(Grade 304)

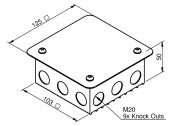
Colour Brushed 2 x M20 **Entries** Fixings 4 x M6



Enclosure D10

Material Stainless Steel (Grade 304)

Brushed Colour Entries 1 x M20 Fixings 4 x M6



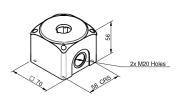
Enclosure D11

Fascia Plate - Stainless Material Steel

Back Box - Galvanised

Steel Colour Fascia Plate - Brushed 9 x M20 knockouts Entries

4 x M5



Enclosure D12

Polycarbonate Material Colour Yellow/Black Entries 2 x M20/M25/ PG13.5/PG16 2 x M16/PG11

Fixings 4xM4

