

# Technical Data Sheet

## Emergency Stop Control Station Range

CDPD90  
Issue 6


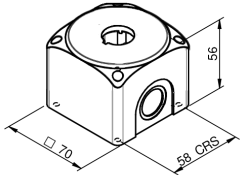

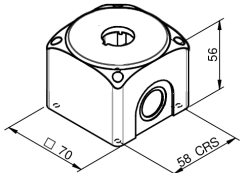

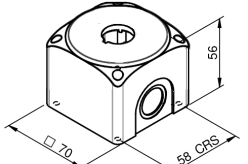

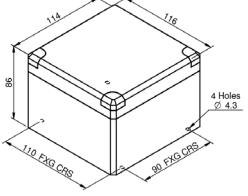

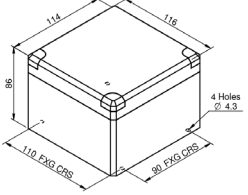
### Emergency Stop Control Stations

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, 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:-


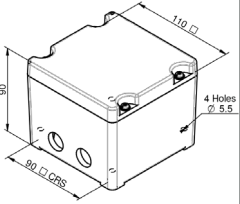

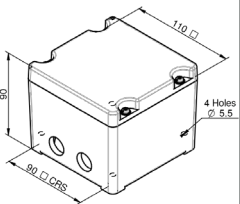

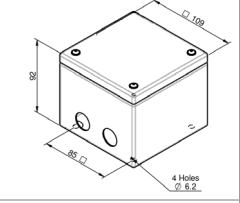

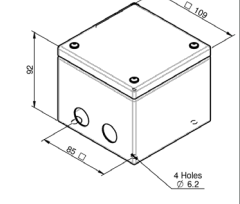

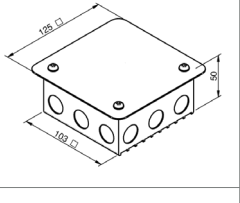

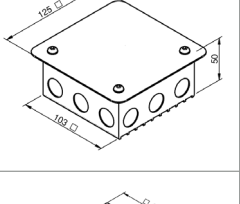

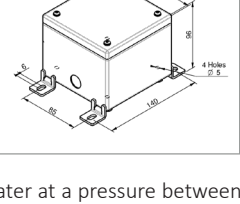
- Enclosure formats - PA / PC Plastic, Glass Filled Polyester, Die-Cast Aluminium, Stainless Steel, Sheet Steel & Flush Mounting.
- 'Reset' Methods - Twist-To-Reset, Pull-To-Reset & Key Reset
- Protection Devices - Raised Shroud & Flap Cover
- Actuators - Heavy (HD) & Normal Duty (ND)

Image	Cat. No.	Description	Dimensions
	EMSL/TNS/PS/NC	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings Emergency Stop, Twist-To-Reset None 1N/C (EMSL Base Mount) PC/PA IP66, IP67 & IP69K 2 x M20/M25/M16 4 x M4	ND 
	EMSL/T/PS/NC	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings Emergency Stop Twist-To-Reset Emergency Stop Circular Yellow 1N/C (EMSL Base Mount) PC/PA IP66, IP67 & IP69K 2 x M20/M25/M16 4 x M4	ND 
	EMSL/K/PS/NC	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings Emergency Stop Key Reset (2 Keys) Emergency Stop Circular Yellow 1N/C (EMSL Base Mount) PC/PA IP66, IP67 & IP69K 2 x M20/M25/M16 4 x M4	ND 
	EMSL/TS/P/NC	Actuator Legend Guard Contacts Enclosure Material IP Rating Entries Fixings Emergency Stop Twist-To-Reset None Raised Shroud 1N/C (EMSL Lid Mount) PC IP65 Plain Sides 2 x M4	ND 
	EMSL/KS/P/NC	Actuator Legend Guard Contacts Enclosure Material IP Rating Entries Fixings Emergency Stop Key Reset. (2 Keys) None Raised Shroud 1N/C (EMSL Lid Mount) PC IP65 Plain Sides 2 x M4	ND 

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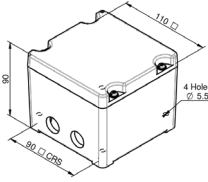

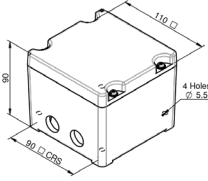

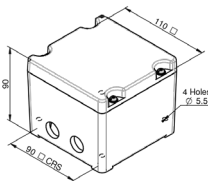

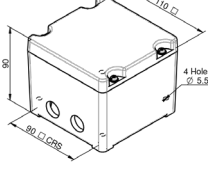

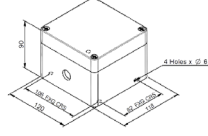

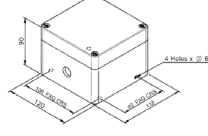

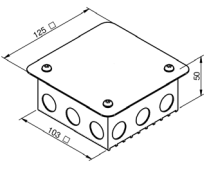
Image	Cat. No.	Description		Dimensions
	EMSL/TS/MG/NC	Actuator Legend Guard Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Twist-To-Reset None Raised Shroud 1N/C (EMSL Lid Mount) Die-Cast Aluminium IP65 2 x M20 4 x M5	ND 
	EMSL/KS/MG/NC	Actuator Legend Guard Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Key Reset (2 Keys) None Raised Shroud 1N/C (EMSL Lid Mount) Die-Cast Aluminium IP65 2 x M20 4 x M5	ND 
	EMSL/T/SS/NC	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop, Twist-To-Reset Emergency Stop Circular Yellow 1N/C (EMSL Lid Mount) Stainless Steel IP65 2 x M20 4 x M6	ND 
	EMSL/K/SS/NC	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Key Reset (2 Keys) Emergency Stop Circular Yellow 1N/C (EMSL Lid Mount) Stainless Steel IP65 2 x M20 4 x M6	ND 
	EMSL/T/F/NC	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Twist-To-Reset Emergency Stop Circular Yellow 1N/C (EMSL Lid Mount) Stainless Steel IP65 9 x M20 knock-outs 4 x M5	ND 
	EMSL/K/F/NC	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Key Reset (2 Keys) Emergency Stop Circular Yellow 1N/C (EMSL Lid Mount) Stainless Steel IP65 9 x M20 knock-outs 4 x M5	ND 
	EMSL/T/SS/NC69*	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop, Twist-To-Reset Emergency Stop circular Yellow 1N/C + safety contact (EMSL Lid Mount) Stainless Steel IP69K 1 x M20 4 x M6	ND 

\*EMSL/T/SS/NC69 is 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.

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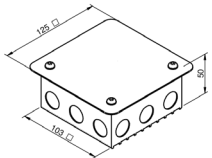

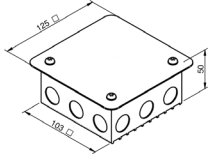

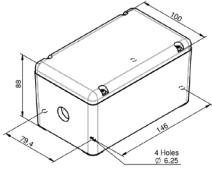

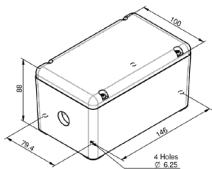
Image	Cat. No.	Description		Dimensions
	EMSH/P/MG/CO	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Mushroom Pull-To-Reset HD Emergency Stop circular Yellow 1N/C+1N/O (MT-16A) Die-Cast Aluminium IP65 2 x M20 4 x M5	
	EMSH/T/MG/CO	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Mushroom Twist-To-Reset HD Emergency Stop circular Yellow 1N/C+1N/O (MT-16A) Die-Cast Aluminium IP65 2 x M20 4 x M5	
	EMSH/K/MG/CO	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Mushroom Twist-To-Reset HD Emergency Stop circular Yellow 1N/C+1N/O (MT-16A) Die-Cast Aluminium IP65 2 x M20 4 x M5	
	EMSH/P/F1/MG/CO	Actuator Legend Guard Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Mushroom Pull-To-Reset HD Emergency Stop printed flap cover Padlocking flap cover 1N/C+1N/O (MT-16A) Die-Cast Aluminium IP65 2 x M20 4 x M5	
	EMSH/T/GP/CO	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Mushroom Twist-To-Reset HD Emergency Stop circular Yellow 1N/C+1N/O (MT-16A) Glass Filled Reinforced Polyester IP65* 1 x M20 4 x M5	
	EMSH/K/GP/CO	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Mushroom Key Reset (2 Keys) HD Emergency Stop circular Yellow 1N/C+1N/O (MT-16A) Glass Filled Reinforced Polyester IP65* 1 x M20 4 x M5	
	EMSH/T/F/CO	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Mushroom Twist-To-Reset HD Emergency Stop circular Yellow 1N/C+1N/O (MT-16A) Stainless Steel IP65* 9 x M20 Knock-outs 4 x M5	

\*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.

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Image	Cat. No.	Description		Dimensions
	EMSH/K/F/CO	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Mushroom Key Reset (2 Keys)HD Emergency Stop circular Yellow 1N/C+1N/O (MT-16A) Stainless Steel IP65* 9 x M20 Knock-outs 4 x M5	
	EMSH/P/F1/F/CO	Actuator Legend Guard Contacts Enclosure Material IP Rating Entries Fixings	Emergency Stop Mushroom Pull-To-Reset HD Padlocking flap cover Emergency Stop pad printed flap cover 1N/C+1N/O (MT-16A) Stainless Steel IP65* 9 x M20 Knock-outs 4 x M5	
	SSTH/GS/P/F1/MG/CO	Actuator Legend Guard Contacts Enclosure Material IP Rating Entries Fixings	a/ Start, momentary b/ Emergency Stop, Pull-To-Reset HD a/ Start b/ Emergency Stop Printed flap cover Padlocking flap cover 1N/C+1N/O (MT-16A) Die-Cast Aluminium IP65 1 x M20 4 x M5	
	ESSH/GS/P/MG/CO	Actuator Legend Contacts Enclosure Material IP Rating Entries Fixings	a/ Start, momentary b/ Emergency Stop, mushroom Pull-To-Reset HD a/ Start b/ Emergency Stop Circular Yellow 1N/C+1N/O (MT-16A) Die-Cast Aluminium IP65 1 x M20 4 x M5	

\*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.

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### Technical Specification

Electrical Ratings- BS EN 60947-5-1

EMSL Series										
Application										
IEC/EN Operational characteristics (AC15)	V	12	24	48	120	240	400	480	500	600
	A	6	6	6	6	6	3	1.5	1.4	1.2
IEC/EN Operational characteristics (DC13)	V	12	24	48	125	250	-	440	500	600
	A	3	3	1.5	0.55	0.27	-	0.15	0.13	0.1
Short circuit protection fuse (max calibre)		10A gG/SC								
Contact resistance		≤20m Ω								
Terminals		Clamp screw with washer Faston 1x 6.35mm (0.25”)   2x 2.8mm (0.11”)								
Maximum conductor cross section for screw terminals		1 or 2 2.5mm² or AWG14 cables								
Mechanical & electrical endurance: Operating force		≤0.5kg / 1.1lb (auxiliary contacts)								
Mechanical & electrical endurance: Electrical life		1,000,000 cycles / 600,000 cycles								
Compliant with standard		IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.								
MT Series										
Application										
Storage Temperature	-50°C up to +85°C									
Operating Temperature	-30°C up to +85°C					For non-illuminated items				
	-30°C up to +55°C					Using incandescent lamps				
	-30°C up to +65°C					Using LED's				
Operating Travel	6mm									
Connections	Screw connections for 2 x 2.5mm², IP2X.									
Lamp Type/Socket	Incandescent lamps, LED's / BA9s									
Contact Material	Silver-nickel alloy (Ag/Ni). Gold Plated Version available upon request.									
Mechanical Life	1 million operations									
Electrical Life	1 million cycles at rated load									
Min. Current / Voltage	1 mA / 5V (Under laboratory conditions)									
Contact Resistance (New State)	< 20mΩ									
Bounce Time	< 10 mS									
Positive Opening N/C Contact	To EN 60947-5-1 appendix K									
Continuous thermal current (I <sub>th</sub> )	16A									
Rated Insulation Voltage (U <sub>i</sub> )	600V									
Utilisation Category	A.C.	AC15 A600								
	D.C.	DC13 Q600								
Rated Operational Voltage (U <sub>e</sub> )	A.C.	250V/440V								
	D.C.	440V / 250V /125V / 60V / 24V								
Rated Operational Current (I <sub>e</sub> )	A.C.	3A/1.6A								
	D.C.	0.12A / 0.2A / 0.4A / 1A / 2A								
Breaking Capacity (I <sub>e</sub> )	A.C.	10								
	D.C.	1.1								
Lamp Socket	BA9s									
Lamp Voltage	Max. 250V (CSA max. 125V)									
Lamp Output	Max. 2W									
Definition	X1.. anode, X2.. cathode.									