Emergency Stop Devices

Push Buttons

800 E-Stops •

Specifications—22.5mm

Front of Panel (Operators)

Mechanical Ratings	-			
Description	Plastic (800EP/ES)	Metal (800EM/EB)		
Vibration (assembled to panel) Shock Degree of protection Mechanical design life (typical)	10 to 2000Hz, 1.52mm displacement (peak-to-peak) max./10g max. 1/2 cycle sine wave for 11ms and no damage at 100g IP66 (NEMA Type 3, 3R, 4, 42, 13) 500,000 cycles: mushroom operators mushroom key operators (play push-pull/twis 50,000 cycles: operators			
Environmental Temperature range	-25°C to +55°C (-13	mushroom key operators (metal) °F to +131°F) 2		
(operating): per IEC 947-1 Temperature range (short term storage): per IEC 947-1	1			
Materials				
Bushings, mounting rings	Glass-filled thermoplastic polyester, rated UL94 V-O	Die-cast zinc; dark olive chromate finish		
Bezels	Glass-filled thermoplastic polyester, rated UL94 V-O	Anodized aluminum (EB, EM, ES line)		
Seals: diaphragm style Seals: lip and flat gasket styles	Silicone rubber Nitrile rubber			
Illuminated lenses	Transparent nylon Ty	pe 12		

- See Performance Data: refer to page Important-2 of the A113 Industrial Controls catalogue.

 ② Operating temperature below 0°C (32°F) are based on the absence of freezing
- moisture and liquids.

 Per IEC 947-1.
- **4** UL File & Guide Number E14840.

Back of Panel Components

Electrical Ratings					
Description	2-Across Style	3-Across Style			
Standard contact block	NEMA, EEMAC	NEMA, A600,			
ratings ②	A600, Q600, VDE	Q600, 600V AC;			
3	0660; AC15, DC 13	AC15, DC 13 to			
	to IEC 947	IEC 947			
Thermal current	10A max.	10A max. without			
	continuous current	enclosure (40°C			
	to UL508, CSA22.2	(104°F) ambient) 6A			
	#14, IEC 947, VDE	with enclosure			
	0660, part 200	(60°C (140°F))			
Terminal marking	Conforming to CENE	, ,,,			
Wire capacity (screw	Min of (1) #20AWG	#18 to #12AWG			
terminal)	Max of (2)				
terminar)	` '	(0.75 to 2.5mm ²)			
	#14AWG or (1)	Max (2) #14AWG			
	#12AWG	or (1) #12 AWG			
Dielectric strength (min)	2,200V for one minut	e			
Electrical design life cycles	1,000,000 at 2A				
Electrical shock	Finger-safe conforming	g to IP2X			
protection: Per IEC 529					
Mechanical Ratings					
Vibration	10 to 2000Hz	10 to 150Hz			
	1.52mm	0.15mm			
	displacement (peak-	displacement (peak-			
	to-peak) max./10g	to-peak) max./2g			
	max. 6hr	max. 6hr			
Shock	1/2 cycle sine wave	1/2 cycle sine wave			
	for 11ms and no	for 11ms and no			
	damage at 100g min	damage at 50g max			
Contact block mechanical	5,000,000 cycles	damage at oog max			
design	3,000,000 cycles				
Contact operation	N.C. slow make, double break (positive				
Contact Operation	opening); N.C.L.B. late break, double				
	break (positive opening)				
Operating forces (typical)	2.78N: all contact	2.6N: each N.C.			
Operating forces (typical)	blocks	contact block			
Environmental	DIOCKS	COITEACT DIOCK			
Temperature range					
Operating 28	-25°C to +55°C (-13°	°F to ±131°F)			
Short term storage 3	-25°C to +55°C (70°				
Short term storage &	(-13°F to +131°F (15				
Materials	(-13 F tO +131 F (13	0 F 111dX 101 24 111 5))			
Springs	Stainless steel and zin	ic coated music wire			
Electrical contacts:	Stairness steel and Zin	Coated music wife			
Standard	Silver nickel alloy	Fine silver			
	SHACE THOUGH GHOA	THE SHVEL			
		Cold plated aver			
Low voltage	Palladium silver	Gold-plated over			
	Palladium silver alloy: spanner; gold-	Gold-plated over silver			
	Palladium silver alloy: spanner; gold- plated silver nickel:				
Low voltage	Palladium silver alloy: spanner; gold- plated silver nickel: stationary contacts				
Low voltage Terminals: Screw type	Palladium silver alloy: spanner; gold- plated silver nickel:				
Low voltage Terminals: Screw type Push-on type	Palladium silver alloy: spanner; gold- plated silver nickel: stationary contacts				
Low voltage Terminals: Screw type Push-on type Agency approvals	Palladium silver alloy: spanner; gold- plated silver nickel: stationary contacts Plated steel	silver			
Low voltage Terminals: Screw type Push-on type Agency approvals Approvals	Palladium silver alloy: spanner; gold- plated silver nickel: stationary contacts Plated steel UL listed 4 /CSA cert	silver			
Low voltage Terminals: Screw type Push-on type Agency approvals	Palladium silver alloy: spanner; gold- plated silver nickel: stationary contacts Plated steel UL listed 4 /CSA cert UL508, UL486E	silver tified NEMA ICS-1 and			
Low voltage Terminals: Screw type Push-on type Agency approvals Approvals	Palladium silver alloy: spanner; gold- plated silver nickel: stationary contacts Plated steel UL listed 4 /CSA cert	silver			
Low voltage Terminals: Screw type Push-on type Agency approvals Approvals	Palladium silver alloy: spanner; gold- plated silver nickel: stationary contacts Plated steel UL listed 4 /CSA cert UL508, UL486E	silver tified NEMA ICS-1 and			
Low voltage Terminals: Screw type Push-on type Agency approvals Approvals	Palladium silver alloy: spanner; gold- plated silver nickel: stationary contacts Plated steel UL listed �/CSA cert UL508, UL486E CSA22.2 #14,	silver tified NEMA ICS-1 and ICS-2 IEC 204-1,			
Low voltage Terminals: Screw type Push-on type Agency approvals Approvals	Palladium silver alloy: spanner; gold- plated silver nickel: stationary contacts Plated steel UL listed 9 /CSA cert UL508, UL486E CSA22.2 #14, NEMA ICS-1 and ICS-2 (1983), IEC	silver tified NEMA ICS-1 and ICS-2 IEC 204-1, 947; SEV 1005,			
Low voltage Terminals: Screw type Push-on type Agency approvals Approvals	Palladium silver alloy: spanner; gold-plated silver nickel: stationary contacts Plated steel UL listed 9 /CSA cert UL508, UL486E CSA22.2 #14, NEMA ICS-1 and ICS-2 (1983), IEC 144, IEC 947-1, IEC	silver iified NEMA ICS-1 and ICS-2 IEC 204-1, 947; SEV 1005, 1093; VDE 0113, 0660 Part 201; BS			
Low voltage Terminals: Screw type Push-on type Agency approvals Approvals	Palladium silver alloy: spanner; gold- plated silver nickel: stationary contacts Plated steel UL listed 9 /CSA cert UL508, UL486E CSA22.2 #14, NEMA ICS-1 and ICS-2 (1983), IEC	silver si			

Product Selection—22.5mm

2-Position Push-Pull Operators, Non Illuminated—Twist-to-Release, Push-Pull



40mm Trigger Action Twist-to-Release Mushroom



40mm Twist-to-Release Mushroom



40mm Push-Pull Mushroom



800E-15YE112 Legend Plate for 40mm C

Colour	Operator Material	40mm Mushroom Operator	Catalogue Number
	Plastic	Tribat to Delegae Depend (Tribage Action) 2	
	Metal	Twist-to-Release — Round (Trigger Action) •	800EM-MTS44
Red	Plastic	Push-Pull Twist-to-Release — Round ❷	800EP-MT4
Reu	Metal		800EM-MT4
	Plastic	Push-Pull — Round ❷	800ES-MP24
	Metal	rusii-ruii — Rouliu 🗸	800EM-MP24

2-Position Trigger Action Operators, Non Illuminated—Key Release @



40mm Key Release Mushroom



60mm Key Release Mushroom



800E-16YE112 Legend Plate for 60mm Cap

Colour	2 Position Trigger Action Mushroom Operator	Size	Catalogue Number
Red -	Danis Kay Look	40mm—Round	800EP-MKR44
	Ronis Key Lock	60mm—Round	800EP-MKR64
	Zadi Kay Look	40mm—Round	800EP-MKZ44
	Zadi Key Lock	60mm—Round	800EP-MKZ64

Back-of-Panel Components, Non Illuminated Operators

Mounting Latch and Contact Block Combination	Mounting	Contact 02	Catalogue Number
2-Across 3-Across	2-Across	1 N.C. Late break	800E-2LX01L
	2-ACI 033	1 N.O 1 N.C. Late break	800E-2LX11L
	3-Across	1 N.C. Late break	800E-3LX01L
	J-ACI 033	1 N.O 1 N.C. Late break	800E-3LX11L
	2-Across	1 N.C. Self-monitoring	800E-2LX01LS
	3-Across	1 IV.C. Sell-Monitoring	800E-3LX01S

Trigger action operators are compliant with EN418 standards using standard N.C., N.C. Late Break, or N.C. Self-Monitoring contact blocks. Key Release operators are IP66, Type 4/13.
 Emergency stop push buttons are compliant with EN 418 standard when using N.C. Late break (N.C.L.B.) contact blocks.
 Key release operators are IP66, Type 4 and 13.

Product Selection—22.5mm

2-Position Red Push-Pull Operators, Illuminated —Mushroom •







60mm Jumbo Mushroom Push-Pull



800E-15YE112 Legend Plate for 40mm Cap

40mm Wushroom Pash-Pali		bomin jumbo iviusnioom pus	iii-ruii Le	Legend Plate for 40mm Cap	
Operator Material	Size		Catalog	ue Number	
	40mm		800E	800ES-LMP24	
Plastic		60mm	800ES	S-LMJP24	
		40mm	800E	M-LMP24	
Metal		60mm	800EN	л-LMJP24	
	<u> </u>	T			
Back-of-Panel Components, Illuminated Operators	Mounting	Туре	Volts	Catalogue Number	
2-Across 3-Across		In condition to	24 AC/DC	800E-2DL3	
(5 ckts. max.) (4 ckts. max.)		Incandescent	120 AC/DC	800E-2DL5	
	2-Across	LED (no d)	24 AC/DC	800E-2DL3R	
		LED (red)	120 AC	800E-2DL5R	
Full Voltage Power Module with Latch	3-Across	Incandescent LED (red)	24 AC/DC	800E-3DL3	
			120 AC/DC	800E-3DL5	
			24 AC/DC	800E-3DL3R	
			120 AC	800E-3DL5R	
	2-Across	Incandescent -	24 AC/DC	800E-2TL5	
2-Across (3 ckts. max.) 3-Across (2 ckts. max.)			120 AC/DC	800E-2TL7	
	2-ACI 055	LED (rod)	24 AC/DC	800E-2TL5R	
		LED (red)	120 AC	800E-2TL7R	
		In a series and	24 AC/DC	800E-3TL5	
		Incandescent	120 AC/DC	800E-3TL7	
	3-Across		24 AC/DC	800E-3TL5R	
Transformer Power Module with Latch		LED (red)	120 AC	800E-3TL7R	
2-Across 3-Across	2-Across			800E-2X01L	
Contact Blocks	3-Across	Late Break ①	1 N.C. Late break	800E-3X01L	

[•] Emergency stop push buttons are compliant with EN 418 standard when using N.C.L.B. contact blocks.

Specifications—30.5mm

Electrical Ratings	
Dielectric strength	2200V for one minute
Electrical design life cycles	1,000,000 at max. rated load
Mechanical Ratings	
Vibration	10 to 2000Hz 1.52mm displacement
	(peak-to-peak) max./10g max. (except
	Logic Reed)
Shock	1/2 cycle sine wave for 11ms ≥25g
	(contact fragility) and no damage at 100g
Degree of protection	Type 1, 4, 4X, 12, 13; watertight/oiltight
	IEC 529 IP66/65
Mechanical design life	
cycles	250,000 min.
(Push-pull/twist-to-release)	
Contact operation	Shallow, mini, and low voltage contact
	blocks: Slow, double make and break.
Typical operating forces	7.5lbs max. push or pull
2-position push-pull	
Environment	
Temperature range	
Operating ⊘	-40°C to +55°C (-40°F to +131°F)
Storage	-40°C to +85°C (-40°F to +185°F)

Standard Contact Ratings

Maximum thermal continuous current $I_{\rm th}$ 10A AC/2.5A DC. Bulletin 800T units with 800T-XA contacts have ratings as follows:

Max. Opertnl. Volts Ue		ation	Rated O	perational (Currents
	IEC	NEMA	Volts Ue	Make	Break
			120 to 600	7200VA	720VA
AC 600	AC-15	A600	72 to 120	60A	720VA
			24 to 72	60A	10A
DC 600	DC 600 DC-13		28 to 600	69	VA
DC 900	DC-13	Q600	24 to 28 ③	2.5	ōΑ

- Performance Data: see publication A113, page Important-2.
- Operating temperatures below freezing are based on the absence of moisture and liquids.
 For applications below 24V/24mA, PenTUFF™ contacts are recommended.

Product Selection—30.5mm

Emergency Stop Operators — 2-Position Red Non Illuminated





2-Position Push-Pull 2-Position Push-Pull/Twist

Operator Position			
Contacts Maintained Out Maintained In	Enclosure Protection	Release	Catalogue Number
	T 40.40	Push-Pull	800T-FX6D4
N.C.L.B.	Type 4 & 13	D 1 D 11/T 1 1	800T-FXT6D4
	Type 4, 4X & 13	Push-Pull/Twist	800H-FRXT6D4
	T 4.0.12	Push-Pull	800T-FX6A1
N.O. Open Closed N.C.L.B. • Closed Open	Type 4 & 13	D D /T	800T-FXT6A1
THOLES. C Glosca Open	Type 4, 4X & 13	Push-Pull/Twist	800H-FRXT6A1
_	T 40.40	Push-Pull	800T-FX6A5
N.C.L.B. Closed Open N.C.L.B. Closed Open	Type 4 & 13		800T-FXT6A5
N.O.E.B. Colosed Open	Type 4, 4X & 13	Push-Pull/Twist	800H-FRXT6A5
	T 40.40	Push-Pull	800TC-FX6D4S
S.M.C.B. 10 Closed Open	Type 4 & 13		800TC-FXT6D4S
	Type 4, 4X & 13	Push-Pull/Twist	800HC-FRXT6D4S
	T 4.0.42	Push-Pull	800TC-FX6A1S
N.O. Open Closed S.M.C.B. 12 Closed Open	Type 4 & 13	D D /T : :	800TC-FXT6A1S
55.E. 2 2 5.5554 6 poin	Type 4, 4X & 13	Push-Pull/Twist	800HC-FRXT6A1S
	T 4.0.42	Push-Pull	800TC-FX6A5S
S.M.C.B. Closed Open S.M.C.B. 10 Closed Open	Type 4 & 13		800TC-FXT6A5S
Simole. Colonia Open	Type 4, 4X & 13	Push-Pull/Twist	800HC-FRXT6A5S

Note: Emergency stop push buttons are compliant with EN-418 and IEC 60947-5-5 Standards when using N.C.L.B. contact blocks.

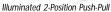
Normally closed late break contact. When button is pushed from the OUT to IN position, the mechanical detent action of the operator occurs before electrical contacts change state. When the button is pulled from the IN to the OUT position, the electrical contacts change state before the mechanical detent occurs.
 The Self-Monitoring Contact Block (S.M.C.B.) is composed of a N.C.L.B. contact wired in series with a N.O. monitoring contact. The N.O. monitoring contact automatically

The Self-Monitoring Contact Block (S.M.C.B.) is composed of a N.C.L.B. contact wired in series with a N.O. monitoring contact. The N.O. monitoring contact automatically closes when the S.M.C.B. is properly installed onto the E-Stop operator. If the S.M.C.B. is separated from the E-Stop operator, the N.O. monitoring contact will automatically open.

Product Selection—30.5mm

2-Position Red Illuminated, Push-Pull and Push-Pull/Twist Release Units







Illuminated 2-Position Push-Pull/Twist

	Illuminated 2-Position Push-Pull Illuminated 2-Position Push-Pull/ Iwist																								
	Operator Position																								
C	ontacts	Maintained Out	Maintained In	Time	Lamn	Volts	Enclosure Protection	Release	Catalogue Number																
	N.O.	Out	iii	Туре	Lamp	VOILS	Protection	Push-Pull	800T-FXQ10RA1																
	N.C.L.B.00					120	Type 4 & 13	i usii-i uii	800T-FXTQ10RA1																
						AC/DC	T 4 4)/ 0	Push-Pull/	600 I-FATQTURAT																
					Incan-descent		Type 4, 4X & 13	Twist	800H-FRXTQ10RA1																
					mount docount		Type 4 & 13	Push-Pull	800T-FXQ24RA1																
						24	Type 4 & 13	Push-Pull/	800T-FXTQ24RA1																
				Full		AC/DC	Type 4, 4X & 13	Twist	800H-FRXTQ24RA1																
				Voltage			T 40.40	Push-Pull	800T-FXQH10RA1																
													120 AC	Type 4 & 13	Push-Pull/	800T-FXTQH10RA1									
						Type 4, 4X & 13	Twist	800H-FRXTQH10RA1																	
															LED		T 40.40	Push-Pull	800T-FXQH24RA1						
		Open Closed _ Closed Open																							
- √						AC/DC	Type 4, 4X & 13	Twist	800H-FRXTQH24RA1																
•———						120	T 40.40	Push-Pull	800T-FXP16RA1																
							Type 4 & 13	Push-Pull/	800T-FXTP16RA1																
					AC	Type 4, 4X & 13	Twist	800H-FRXTP16RA1																	
					Incan-descent	240		ype 4 & 13 Push-Pull	800T-FXP26RA1																
							240		800T-FXTP26RA1																
				Trans-		AC	Type 4, 4X & 13	Push-Pull/ Twist	800H-FRXTP26RA1																
				former			T 40.10		800T-FXPH16RA1																
				120 AC	Type 4 & 13	Push-Pull	800T-FXTPH16RA1																		
					LED	-	Type 4, 4X & 13	Push-Pull/ Twist	800H-FRXTPH16RA1																
					LED		T 4 0 40	Develop "	800T-FXPH26RA1																
						240	Type 4 & 13	Push-Pull	800T-FXTPH26RA1																
						AC	Type 4, 4X & 13	Push-Pull/ Twist	800H-FRXTPH26RA1																

Note: A jumbo or large legend plate is recommended if space allows.

Note: Emergency stop push buttons are compliant with EN-418 and IEC 60947-5-5 Standards when using N.C.L.B. contact blocks.

[•] Normally closed late break contact. When button is pushed from the OUT to IN position, the mechanical detent action of the operator occurs before electrical contacts change state. When the button is pulled from the IN to the OUT position, the electrical contacts change state before the mechanical detent occurs.

Onsult your local Allen-Bradley sales office for availability of illuminated E-Stops with Self Monitoring Contact Blocks (S.M.C.B.s).

Emergency Stop Devices

Push Buttons 800 E-Stops

Accessories

	Туре	Style	Colour	Catalogue Number
	Enclosure	1 Hole		800E-1PY
	Plastic (IP66, NEMA 4/4X/13	2 Hole	Well see	800E-2PY
	Base Mount For use with 22.5mm	3 Hole	Yellow	800E-3PY
	Push Buttons	5 Hole		800E-5PY
	Square Legend Plate	For 800E Buttons Aluminum	Aluminum, Blank	800E-19AE100
Mencell	40mm Circular Legend Plate		Yellow,	800E-15YE112
2700	60mm Circular Legend Plate	For 800 E Buttons	Emergency Stop	800E-16YE112
			Yellow, Blank	800T-X646
	Cincular Langual Dista	For 800T Buttons	Yellow, Emergency Stop	800T-X646EM
0	Circular Legend Plate	For 800H	Yellow, Blank	800H-W690