30 Mm NEMA

Description

The Bulletin 800T and 800H 30.5 mm Emergency Stop devices provide increased reliability. E-stops with normally closed late break contacts comply with EN418 and IEC 947‑5‑5 standards. This means the operator will latch when actuated before the contacts will change state.

Application flexibility is offered with 2‑position push-pull or 2‑position push-pull/twist release configurations. Non-illuminated and illuminated operator options are available. Contact block versions are also available that provide IP2X finger-safe protection.

Rockwell Automation also offers Self-Monitoring™ contact blocks (SMCB) which feature enhanced E-stop safety for critical process control applications. The SMCB monitors whether or not it is properly installed on the operator so that the normally closed contacts will open when the E-stop is actuated. If the SMCB is separated from the operator for any reason, the controlled circuit will automatically open.

Features

- 30.5 mm mounting hole
- Type 4/13 watertight/oiltight (Bul. 800T)
- Type 4/4X/13 corrosion-resistant/watertight/oiltight (Bul. 800H)
- Heavy industrial stations and operators

Standards Compliance

UL 508

CCC

Certifications

UL Listed
(File No. E14840, E10314
Guide No. NKCR, NOIV, NISD)

CSA Certified
(File No. LR1234, LR11924)

CSA C22.2, No. 14

CE Marked (EN/IEC 60947‑5‑1, EN/IEC 60947‑5‑5, EN ISO 13850)

Specifications

Electrical Ratings		
Contact ratings		Refer to the contact ratings tables below.
Dielectric strength		2200V for one minute, 1300V for one minute (Logic Reed)
Electrical design life cycles		1 000 000 at max. rated load, 200 000 at max. rated load (Logic Reed)
Mechanical Ratings		
Vibration		10…2000 Hz 1.52 mm displacement (peak-to-peak) max./10 G max. (except Logic Reed)
Shock		1/2 cycle sine wave for 11 ms ≥ 25 G (contact fragility) and no damage at 100 G
Degree of protection		Type 1/4/12/13 (Bul. 800T); Type 1/4/4X/12/13 (Bul. 800H); EN/IEC 60529 IP66/65
Mechanical design life cycles (Push-pull/twist-to-release)		250 000 min.
Contact operation		Shallow, mini, and low voltage contact blocks: Slow, double make and break Logic Reed and sealed switch contact blocks: Single break magnetic
Wire gauge/Terminal screw torque		#18…12 AWG / 6…8 lb•in
Typical operating forces		
2-position push-pull		7.5 lbs max. push or pull
Twist-to-release or push-pull		9 lbs max. push or pull 30 in oz. max. twist, 6 in oz. minimum return
Contact blocks	Standard	1 lb
	Logic Reed	1 lb max.
	Sealed switch	3 lbs max. at 0.205 in plunger travel
	Stackable sealed switch	1 lb max.
Environment		
Temperature range	Operating	-40…+131 °F (-40…+55 °C)
	Storage	-40…+185 °F (-40…+85 °C)
Note: Operating temperatures below freezing are based on the absence of moisture and liquids. Contact your local Rockwell Automation sales office or Allen-Bradley distributor for use in lower temperature applications.		
Humidity		50…95% RH from 77…140 °F (25…60 °C) per Procedure IV of MIL-STD-BIOC, Method 507.1 cycling test

Standard Contact Ratings

Minimum: 24V 24 mA

Maximum thermal continuous current I_{th} 10 A AC/2.5 A DC. Bulletin 800T and 800H units with Cat. No. 800T-XA contacts have ratings as follows:

Max. Opertnl. Volts Ue	Utilization Category		Rated Operational Currents		
	IEC	NEMA	Volts Ue	Make	Break
AC 600	AC-15	A600	120…600 72…120 24…72	7200VA 60 A 60 A	720VA 720VA 10 A
DC 600	DC-13	Q600	28…600 24…28‡	69VA 2.5 A	

‡ For applications below 24V/24 mA, Pen*TUFF*™ or Logic Reed contacts are recommended.

Product Selection

2-Position Push-Pull and Push-Pull/Twist Release, Non-Illuminated

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

2-Position Push-Pull
Cat. No. 800T-FX6D4

2-Position Push-Pull / Twist
Cat. No. 800T-FXT6D4

2-Position Push-Pull / Twist
Cat. No. 800H-FRXT6D4

Contact Type		Operator Position		Button Color	Type 4/13		Type 4/4X/13
					Push-Pull	Push-Pull/Twist Release	Push-Pull/Twist Release
		Out	In		Cat. No.	Cat. No.	Cat. No.
	N.C.L.B.*	X	O	Red	800T-FX6D4	800T-FXT6D4	800H-FRXT6D4
	N.O. - N.C.L.B.*	O X	X O	Red	800T-FX6A1	800T-FXT6A1	800H-FRXT6A1
	N.C.L.B. - N.C.L.B.*	X X	O O	Red	800T-FX6A5	800T-FXT6A5	800H-FRXT6A5
	S.M.C.B.* ‡	X	O	Red	800TC-FX6D4S	800TC-FXT6D4S	800HC-FRXT6D4S
	N.O. - S.M.C.B.* ‡	O X	X O	Red	800TC-FX6A1S	800TC-FXT6A1S	800HC-FRXT6A1S
	S.M.C.B. - S.M.C.B* ‡	X X	O O	Red	800TC-FX6A5S	800TC-FXT6A5S	800HC-FRXT6A5S

Note:X = Closed/O = Open

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

Note: These caps are only available in plastic.

* 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 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.

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

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

Illuminated 2-Position Push-Pull
Cat. No. 800T-FXP16RA1

Illuminated 2-Position Push-Pull/Twist
Cat. No. 800T-FXTP16RA1

Illuminated 2-Position Push-Pull/Twist
Cat. No. 800H-FRXTP16RA1

Type	Lamp Type	Volts	Color	Contacts	Operator Position		Type 4/13		Type 4/4X/13
							Push-Pull Release	Push-Pull/Twist Release	Push-Pull/Twist Release
					Maintained	*Maintained*			
					Out	In	Cat. No.	Cat. No.	Cat. No.
Full Voltage	Incandescent	24V AC/DC	Red	N.O. - N.C.L.B. * §	O X	X O	800T-FXQ24RA1	800T-FXTQ24RA1	800H-FRXTQ24RA1
	LED	120V AC					800T-FXQH10RA1	800T-FXTQH10RA1	800H-FRXTQH10RA1
		24V AC/DC					800T-FXQH24RA1	800T-FXTQH24RA1	800H-FRXTQH24RA1
Transformer	Incandescent	120V AC	Red	N.O. - N.C.L.B. * §	O X	X O	800T-FXP16RA1	800T-FXTP16RA1	800H-FRXTP16RA1
		240V AC					800T-FXP26RA1	800T-FXTP26RA1	800H-FRXTP26RA1
	LED	120V AC					800T-FXPH16RA1	800T-FXTPH16RA1	800H-FRXTPH16RA1
		240V AC					800T-FXPH26RA1	800T-FXTPH26RA1	800H-FRXTPH26RA1

Note:X = Closed/O = Open

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

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‡ 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.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability of illuminated E-stops with Self Monitoring Contact Blocks (S.M.C.B.s).

Accessories

	Type	Style	Color	Cat. No.
	Emergency Stop Legend Plates	For 800T Buttons	Yellow, Blank	800T-X646
			Yellow, Emergency Stop	800T-X646EM
		For 800H Buttons	Yellow, Emergency Stop	800H-W690