

22mm XW E-Stops

Key features:

- The depth behind the panel can be as little as 46.4 mm for 1 to 4 contacts (with terminal cover) for illuminated and non-illuminated units.
- IDEC's original "Safe break action" ensures that the NC contacts open when the contact block is detached from the operator.
- 1 to 4NC main contacts and 1 or 2NO monitor contacts
- Push-to-lock, Pull or Turn-to-reset operator
- Models with mechanical indicator on the operator body show the normal/latched status (green: normal).
- Safety lock mechanism (IEC60947-5-5, 6.2)
- Degree of protection IP65 (IEC60529)
- Fingersafe (IP20) terminals
- Three button sizes: ø38, ø40 and ø60 mm
- Push-ON illumination type available (40mm mushroom head)
- Direct opening action mechanism (IEC60947-5-5, 5.2, IEC60947-5-1, Annex K)
- RoHS compliant (EU directive 2002/95/EC).
- UL c-UL listed. EN compliant
- UL NISD category emergency stop device (File# E305148)



UL File #E68961



CCC No. 2005010305150897






Specifications



Applicable Standards	IEC60947-5-5, EN60947-5-5, JIS C8201-5-1, UL508, UL991, NFPA79, CSA C22.2 No. 14, GB14048.5
Operating Temperature	Non-illuminated: -25 to +60°C (no freezing), Illuminated: -25 to +55°C (no freezing)
Operating Humidity	45 to 85% RH (no condensation)
Storage Temperature	-45 to +80°C
Operating Force	Push-to-lock: 32N Pull-to-reset: 21N Turn-to-reset: 0.27N·m
Minimum Force Required for Direct Opening Action	80N
Min Operator Stroke Required for Direct Opening Action	4mm
Maximum Operator Stroke	4.5mm
Contact Resistance	50mΩ maximum (initial value)
Contact Material	Gold plated silver
Insulation Resistance	100MΩ minimum (500V DC megger)
Impulse Withstand Voltage	2.5kV
Pollution Degree	3
Operation Frequency	900 operations/hour
Shock Resistance	Operating extremes: 150m/s ² (15G), Damage limits: 1000m/s ² (100G)
Vibration Resistance	Operating extremes: 10 to 500Hz, amplitude 0.35mm acceleration 50m/s ² Damage limits: 10 to 500Hz, amplitude 0.35mm acceleration 50m/s ²
Mechanical Life	250,000 operations minimum
Electrical Life	100,000 operations minimum, (250,000 operations minimum @ 24V AC/DC, 100mA)
Degree of Protection	Operator: IP65 (IEC60529) Terminal: IP20 (when XW9Z-VL2MF is installed)
Terminal Style	M3.0 screw terminal
Recommended Tightening Torque for Locking Ring	2.0N·m
Wire Size	16 AWG max
Weight	ø40mm: 72g ø60mm: 81g

Part Numbers

Standard Button Without Mechanical Indicator

Style	Operator Type	Monitor Contact	Main Contact	Part Number
Non-Illuminated 	40mm Mushroom	1NO	1NC	XW1E-BV411M-R
		-	2NC	XW1E-BV402M-R
		2NO	2NC	XW1E-BV422M-R
		1NO	3NC	XW1E-BV413M-R
		-	4NC	XW1E-BV404M-R
Illuminated ¹ 	40mm Mushroom with built-in 24V AC/DC LED	1NO	1NC	XW1E-LV411Q4M-R
		-	2NC	XW1E-LV402Q4M-R
		2NO	2NC	XW1E-LV422Q4M-R
		1NO	3NC	XW1E-LV413Q4M-R
		-	4NC	XW1E-LV404Q4M-R
Illuminated ² 	40mm Mushroom Push-ON LED ²	1NO	1NC	XW1E-LV411Q4M-R
		1NO	2NC	XW1E-TV412Q4M-R


Smooth Button With Mechanical Indicator

Style	Operator Type	Monitor Contact	Main Contact	Part Number
Non-Illuminated 	38mm Mushroom	-	1NC	XW1E-BV4TG01MR
		-	2NC	XW1E-BV4TG02MR
		-	3NC	XW1E-BV4TG03MR
		-	4NC	XW1E-BV4TG04MR
		1NO	1NC	XW1E-BV4TG11MR
		1NO	2NC	XW1E-BV4TG12MR
		1NO	3NC	XW1E-BV4TG13MR
Illuminated 	38mm Mushroom with built-in 24V AC/DC LED ¹	2NO	4NC	XW1E-BV4TG22MR
		-	1NC	XW1E-LV4TG01Q4MR
		-	2NC	XW1E-LV4TG02Q4MR
		-	3NC	XW1E-LV4TG03Q4MR
		-	4NC	XW1E-LV4TG04Q4MR
		1NO	1NC	XW1E-LV4TG11Q4MR
		1NO	2NC	XW1E-LV4TG12Q4MR
		1NO	3NC	XW1E-LV4TG13Q4MR
		2NO	2NC	XW1E-LV4TG22Q4MR
		2NO	2NC	XW1E-LV4TG22Q4MR

- 1. The light is independent of the position of the switch, except for push-on LED type.
- 2. The light only operates when the switch is pressed as it is internally wired.

- Note: Pushlock pull/turn reset switches are locked when pressed, and reset when pulled or turned clockwise.
- 1. LED lamp is not removable.

XW Series EMO Switches

Style	NC Main Contact	NO Monitor Contact	Part Number
40mm Mushroom 	1NC	-	XW1E-BV401M-RH-EMO
	2NC	-	XW1E-BV402M-RH-EMO
	3NC	-	XW1E-BV403M-RH-EMO
	4NC	-	XW1E-BV404M-RH-EMO
	1NC	1NO	XW1E-BV411M-RH-EMO
	2NC	1NO	XW1E-BV412M-RH-EMO
	3NC	1NO	XW1E-BV413M-RH-EMO
	2NC	2NO	XW1E-BV422M-RH-EMO

FB Enclosures with XW E-Stops

	40mm Push-lock Turn/Pull Reset Non-Illuminated	2NC	-	FB1W-XW1E-BV402MR
		1NC	1NO	FB1W-XW1E-BV411MR
		2NC	2NO	FB1W-XW1E-BV422MR
		3NC	1NO	FB1W-XW1E-BV413MR
		4NC	-	FB1W-XW1E-BV404MR
	40mm Push-lock Turn/Pull Reset Illuminated*	2NC	-	FB1W-XW1E-LV402MR
		1NC	1NO	FB1W-XW1E-LV411MR
		2NC	2NO	FB1W-XW1E-LV422MR
		3NC	1NO	FB1W-XW1E-LV413MR
	60mm Push-lock Turn/Pull Reset Non-Illuminated	4NC	-	FB1W-XW1E-LV404MR
		2NC	-	FB1W-XW1E-BV502MR
		1NC	1NO	FB1W-XW1E-BV511MR
		2NC	2NO	FB1W-XW1E-BV522MR
		3NC	1NO	FB1W-XW1E-BV513MR
		4NC	-	FB1W-XW1E-BV504MR



For added safety, Switch Guards and Nameplates can be used with E-Stop Enclosures

- *LED illumination voltage: 24V AC/DC

Overview

XW Series E-Stops

Interlock Switches

Enabling Switches

Safety Control

Light Curtains

AS-Interface Safety at Work