

16, 22 & 30mm X Series E-Stop Switches

Features

Specifications

Weight

- Plastic bezel, metallic padlock and flush bezel available (XN series)
- Install up to 20 padlocks (XN4E)
- ø29, ø40, ø44 or ø60mm Mushroom heads available
- IDEC's original "safe break action" ensures that the contacts stay open when the contact block is detached from the operator.
- Safety-lock mechanism (IEC60947-5-5, 6.2)
- 2-in-1: Push-to-lock, Pull/Turn-to-Reset
- Push-ON LED model allows E-Stops to be illuminated only when latched
- Direct Opening Action mechanism (IEC60947-5-5, 5.2, IEC60947-5-1, Annex K)
- Very short panel depth (see chart on next page)

ø29mm: 23g

ø40mm: 28g

- Degree of protection IP65 (IEC60529)
- RoHS compliant (EU directive 2002/95/EC). Contains no lead, cadmium, mercury, hexavalent chromium, PBB or PBDE.
- XN4E series complies with OSHA and ISO 12100-2:2003 standards















ø16mm - XA ø22mm - XW ø30mm - XN IEC60947-5-1, EN60947-5-1, IEC60947-5-5, EN60947-5-5 **Applicable Standards** UL508, CSA C22.2 No. 14 UL508, UL991, CSA C22.2 No. 14 **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 XN1E, XN5E XN4E Push-to-lock: 10.5N Push-to-lock: 32N Push-to-lock: 32N Push-to-lock: 32N **Operating Force** Pull-to-reset: 10N Pull-to-reset: 21N Pull-to-reset: 21N Pull-to-reset: N/A Turn-to-reset: 0.16N·m Turn-to-reset: 0.27 N·m Turn-to-reset: 0.27 N·m Turn-to-reset: 0.4 N·m Minimum Force Required for 80N **Direct Opening Action** Min Operator Stroke Required 4mm

ø40mm: 72g

ø60mm: 81g

Plastic bezel: 83g (ø40 mm), 93g (ø60 mm)

Flush bezel: 89g Padlock type: 20g

Contact Ratings

Rated Insulation Voltage (Ui)			XA	300V (illuminated part: 60V)			
			XW, XN	250V			
Rated Current (Ith)				XA, XW, XN	5A		
Rated Operating Voltage (Ue)					30V	125V	250V
Operating Current	Main Contacts (NC)	AC 50/60 Hz	Resistive Load (AC-12)	XA	_	3А	3A
				XW, XN	_	5A	3A
			Inductive Load (AC-15)	XA	_	1.5A	1.5A
				XW, XN		3A	1.5A
ratir		DC	Resistive Load (DC-12)	XA, XW, XN	2A	0.4A	0.2A
Ope			Inductive Load (DC-13)		1A	0.22A	0.1A
Rated	Monitor Contacts (NO)	AC 50/60 Hz	Resistive Load (AC-12)		_	1.2A	0.6A
			Inductive Load (AC-14)		-	0.6A	0.3A
		DC	Resistive Load (DC-12)		2A	0.4A	0.2A
			Inductive Load (DC-13)		1A	0.22A	0.1A

• Minimum applicable load: 5V AC/DC, 1mA (reference value).

Illuminated Unit LED Ratings

Model	Rated Voltage	Operating Voltage	Rated Current
16mm XA		24V AC/DC ±10%	11mA
22mm XW 30mm XN	24V AC/DC		15mA

Denth Behind the Panel

Depth (mm)	Description				
27.9	1 - 4 contacts, both illuminated & non-illuminated				
48.7	1 - 4 contacts, both illuminated & non-illuminated				
47.7	1 - 4 contacts, plastic bezel				
60.4	1 - 4 contacts, flush bezel				
61.4	1 - 4 contacts, padlock				
	(mm) 27.9 48.7 47.7 60.4				

Part Numbers

XA1E - L V <u>3 11</u> <u>Q4 V</u>- R

Illumination . B: Non-Illuminated

L: Illuminated

Mushroom Size

- 3: ø29mm
- 4: ø40mm

Contact Configuration*

11: 1NO - 1NC

02: 2NC

13: 1NO - 3NC

04: 4NC

Voltage Code blank: Non-illuminated Q4: Illuminated 24V AC/DC

Q4: Illuminated 24V AC/DC

Terminal

V: PCB

blank: solder tab

XW1E - <u>L</u> V <u>4 11</u> <u>Q4</u>M - R

Illumination

- B: Non-Illuminated
- L: Illuminated LED
- T: Illuminated Push-ON LED

Mushroom Size

- 4: ø40mm
- 5: ø60mm

(non-illuminated only)

Contact Configuration*

- 11: 1NO 1NC
- 04: 4NC
- 22: 2NO-2NC
- LED only)

blank: Non-Illuminated

- 02: 2NC
- 12: 1NO-2NC (Push-0N

XN1E - L V 4 02 Q4 MR

- 1: Plastic Bezel
- 4: Padlock
- 5: Flush Bezel

Illumination

XN1E, XN5E

BV: Non-Illuminated

LV: Illuminated LED

TV: Illuminated Push-ON LED

XN4E

BL: Non-Illuminated

LL: Illuminated LED

TL: Illuminated Push-ON LED

Mushroom Size

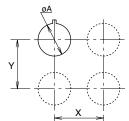
4: ø40mm: XN1E, XN5E ø44mm: XN4E

5: ø60mm (XN1E non-illuminated only)

Voltage Code

- 13: 1NO 3NC

Mounting Hole Layout



Measurements

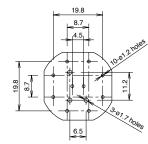
Size	Model	øΑ	X & Y	
16mm XA	ø29mm	16 2 ^{+0.2}	40mm min	
16mm XA	ø40mm	10.2	50mm min	
22mm XW		22.3+0.4	70mm min	
30mm XN1E, XN5E		30.5+0.5	70mm min	

Note: For XN4E, determine the values according to the size and number of padlocks and hasp.

PC Board Layout - Bottom View (for 16mm XA only)

Non-Illuminated

Illuminated



Contact Configuration* Voltage Code

& Push-ON LED type)

11: 1NO - 1NC blank: Non-Illuminated 02: 2NC Q4: 24V AC/DC (Illuminated 13: 1NO - 3NC

22: 2NO - 2NC 04: 4NC

12: 1NO-2NC (Push-0N LED only)

XN4E-LL411MR

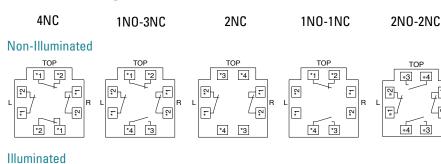




[•] The rated operating currents are measured at resistive/inductive load types specified in IEC 60947-5-1.



Terminal Arrangements (Bottom View)

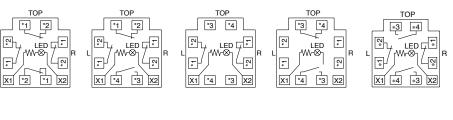


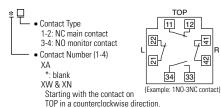
1NO-2NC

Push-ON



Terminal Marking Description



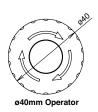


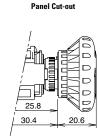
- Note: 1: contact on the TOP
- 2: contact on the Left
- 3: contact on the Bottom
- 4: contact on the Right

Dimensions (mm)

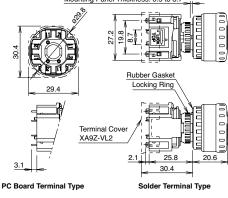


ø29mm Operator

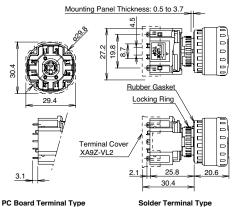




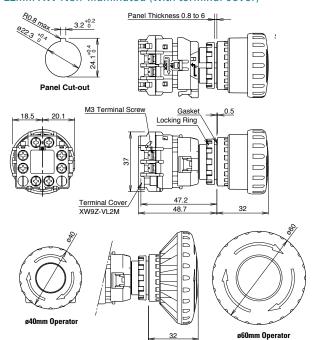
16mm XA Non-Illuminated Mounting Panel Thickness:



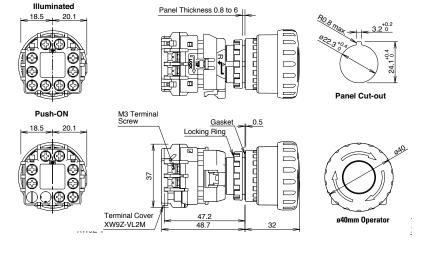
16mm XA Illuminated



22mm XW Non-Illuminated (with terminal cover)

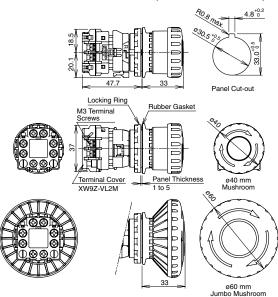


22mm XW LED Illuminated/Push-ON (with terminal cover)

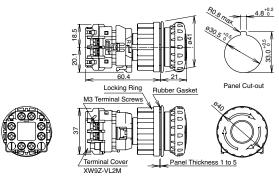




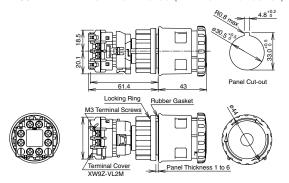
30mm XN1E Non-Illuminated (with terminal cover)



30mm XN5E Non-Illuminated (with terminal cover)



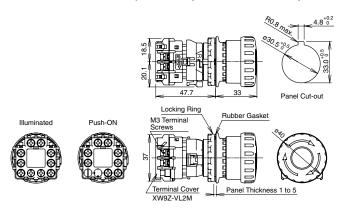
30mm XN4E Non-Illuminated (with terminal cover)



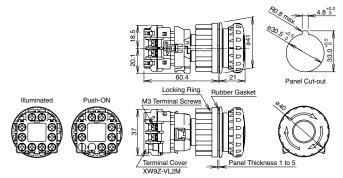
Accessories

Model	Description	Part Number
	Replacement LED Unit: Solder Terminal	XA9Z-LED2R
XA	Replacement LED Unit: PCB Terminal	XA9Z-LED2VR
	Terminal Cover for contact block	XA9Z-VL2
XW and XN	Terminal Cover for contact block	XW9Z-VL2M
AVV and Aiv	IP20 Fingersafe Cover	XW9Z-VL2MF
	Locking Ring Wrench	XN9Z-T1
XN	Locking Ring Twist Wrench	TWST-T1
	Lockout Hasp	XN9Z-HASP421

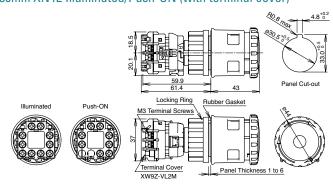
30mm XN1E Illuminated/Push-ON (with terminal cover)



30mm XN5E Illuminated/Push-ON (with terminal cover)



30mm XN4E Illuminated/Push-ON (with terminal cover)



For more information on the these and other IDEC E-Stops, visit:

www.IDEC.com/usa/estop

IDEC Corporation • 1175 Elko Drive Sunnyvale, CA 94089 • 800-262-IDEC (4332) Fax: 408-745-5258 • www.IDEC.com/usa

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