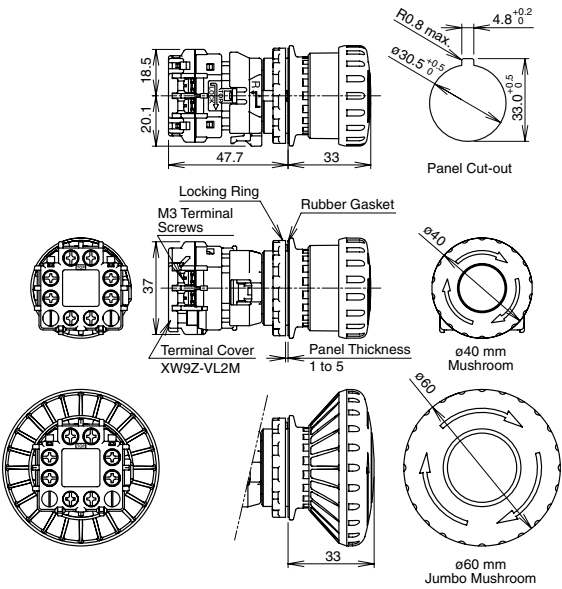
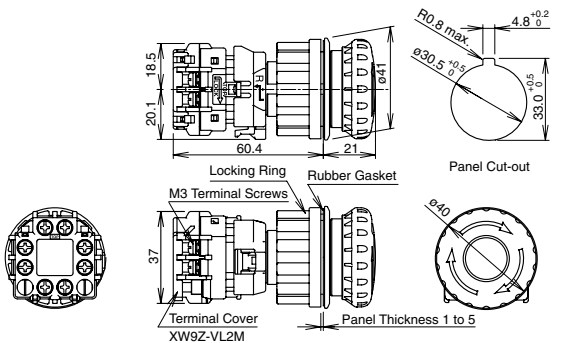


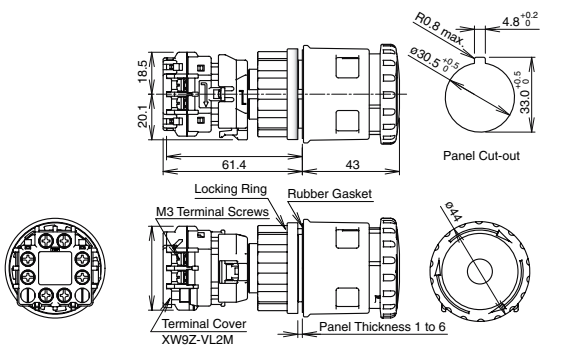
30mm XN1E Non-Illuminated (with terminal cover)



30mm XN5E Non-Illuminated (with terminal cover)



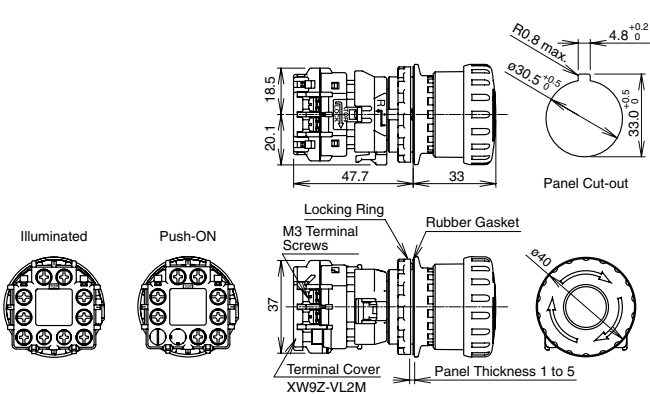
30mm XN4E Non-Illuminated (with terminal cover)



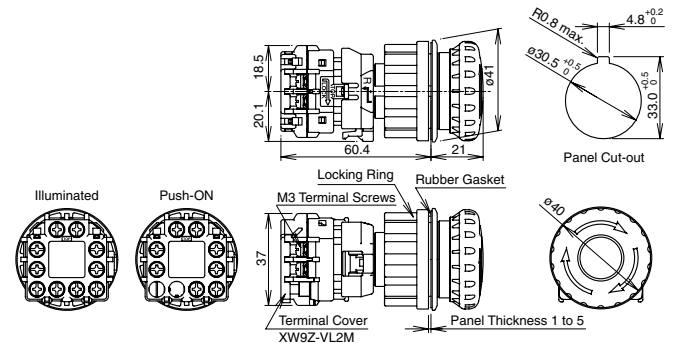
Accessories

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

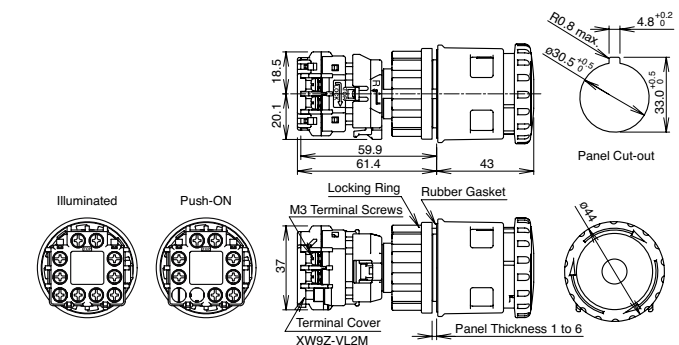
30mm XN1E Illuminated/Push-ON (with terminal cover)



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:

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Catalog No. XS9Y-DS100-1 01/10 10K

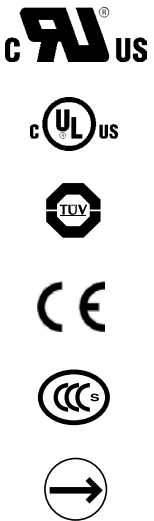
16, 22 & 30mm X Series E-Stop Switches

Features

- 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)
- 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

Specifications

	ø16mm - XA	ø22mm - XW	ø30mm - XN	
Applicable Standards	IEC60947-5-1, EN60947-5-1, IEC60947-5-5, EN60947-5-5			
	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			
Operating Force	Push-to-lock: 10.5N Pull-to-reset: 10N Turn-to-reset: 0.16N·m	Push-to-lock: 32N Pull-to-reset: 21N Turn-to-reset: 0.27 N·m	XN1E, XN5E Push-to-lock: 32N Pull-to-reset: 21N Turn-to-reset: 0.27 N·m	XN4E Push-to-lock: 32N Pull-to-reset: N/A Turn-to-reset: 0.4 N·m
Minimum Force Required for Direct Opening Action	60N	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 (inside LED unit: 2)	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	IP65 (IEC60529)	Operator: IP65 (IEC60529) Terminal: IP20 (when XW9Z-VL2MF is installed)		
Conditional Short-circuit Current	1000A			
Terminal Style	Solder terminal, PC board terminal	M3.0 screw terminal		
Recommended Tightening Torque for Locking Ring	0.88N·m	2.0 N·m	2.5 N·m	
Connectable Wire	1.25mm ² maximum (16 AWG max)	0.75 to 1.25mm ² (16 AWG max)		
Soldering Conditions	310 to 350°C, 3 seconds maximum			
Weight	ø29mm: 23g ø40mm: 28g	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
Rated Operating Current	Main Contacts (NC)	AC 50/60 Hz	Resistive Load (AC-12)	XA	–	3A
				XW, XN	–	5A
			Inductive Load (AC-15)	XA	–	1.5A
				XW, XN		3A
	Monitor Contacts (NO)	DC	Resistive Load (DC-12)		2A	0.4A
			Inductive Load (DC-13)		1A	0.22A
		AC 50/60 Hz	Resistive Load (AC-12)	XA, XW, XN	–	1.2A
			Inductive Load (AC-14)		–	0.6A
		DC	Resistive Load (DC-12)		2A	0.4A
			Inductive Load (DC-13)		1A	0.22A

- Minimum applicable load: 5V AC/DC, 1mA (reference value).
- The rated operating currents are measured at resistive/inductive load types specified in IEC 60947-5-1.

Part Numbers

XA1E - L V 3 11 Q4 V- 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
- Terminal**
 blank: solder tab
 V: PCB
- Voltage Code**
 blank: Non-Illuminated
 Q4: Illuminated 24V AC/DC

XW1E - L V 4 11 Q4M - 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
 02: 2NC
 13: 1NO - 3NC
 04: 4NC
 22: 2NO-2NC
 12: 1NO-2NC (Push-ON LED only)
- Voltage Code**
 blank: Non-Illuminated
 Q4: Illuminated 24V AC/DC

XN1E - L V 4 02 Q4 MR

- Bezel**
 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)
- Contact Configuration***
 11: 1NO - 1NC
 02: 2NC
 13: 1NO - 3NC
 22: 2NO - 2NC
 04: 4NC
 12: 1NO-2NC (Push-ON LED only)
- Voltage Code**
 blank: Non-Illuminated
 Q4: 24V AC/DC (Illuminated & Push-ON LED type)

*Contact IDEC for additional contact configurations.

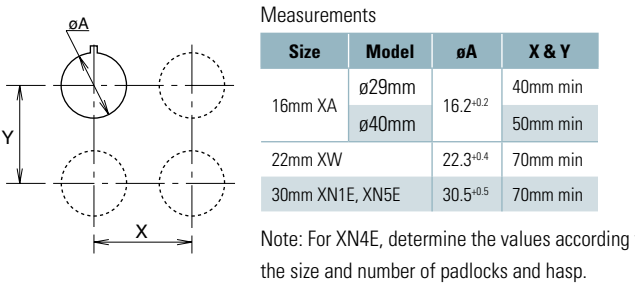
Illuminated Unit LED Ratings

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

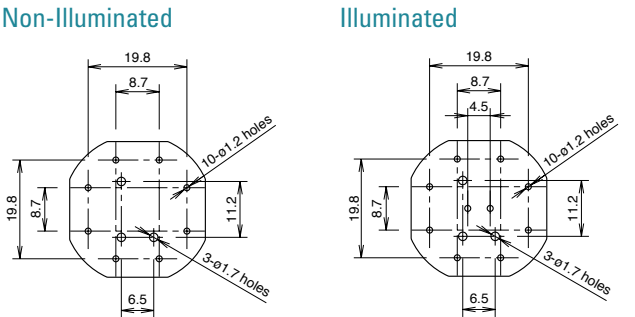
Depth Behind the Panel

Model	Depth (mm)	Description
16mm XA	27.9	1 - 4 contacts, both illuminated & non-illuminated
22mm XW	48.7	1 - 4 contacts, both illuminated & non-illuminated
	47.7	1 - 4 contacts, plastic bezel
30mm XN	60.4	1 - 4 contacts, flush bezel
	61.4	1 - 4 contacts, padlock

Mounting Hole Layout



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



Terminal Arrangements (Bottom View)

4NC

1NO-3NC

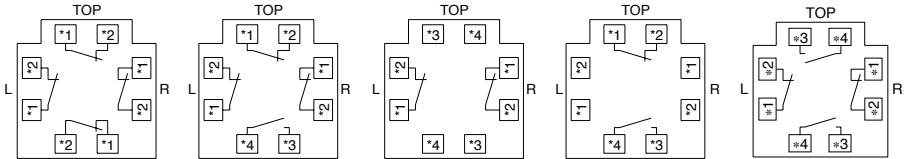
2NC

1NO-1NC

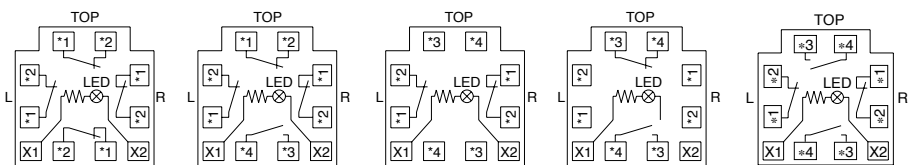
2NO-2NC

1NO-2NC

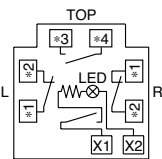
Non-Illuminated



Illuminated



Push-ON



Terminal Marking Description

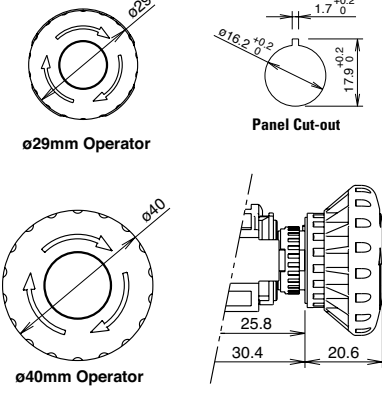
- Contact Type
1-2: NC main contact
3-4: NO monitor contact
 - Contact Number (1-4)
XA
*: blank
XW & XN

Starting with the contact on TOP in a counterclockwise direction.

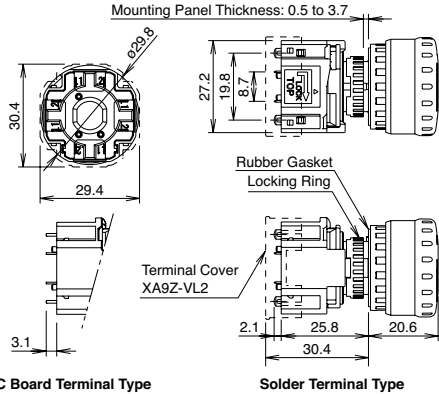
Note:
1: contact on the TOP
2: contact on the Left
3: contact on the Bottom
4: contact on the Right
- (Example: 1NO-3NC contact)

Dimensions (mm)

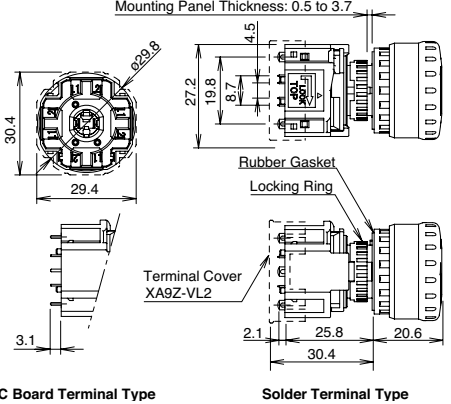
16mm XA



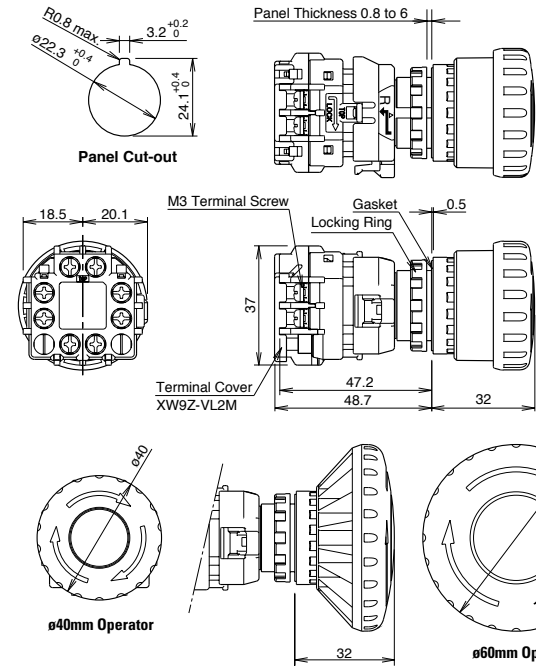
16mm XA Non-Illuminated



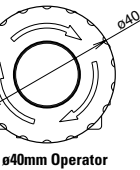
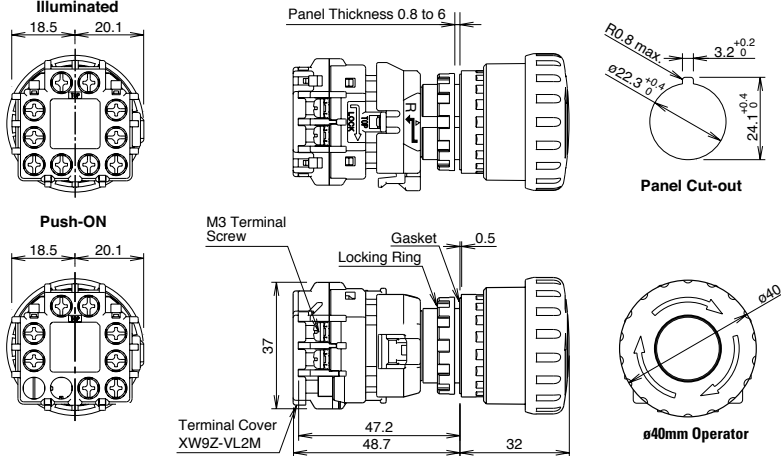
16mm XA Illuminated



22mm XW Non-Illuminated (with terminal cover)



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



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
Rated Operating Current	Main Contacts (NC)	AC 50/60 Hz	Resistive Load (AC-12)	XA	–	3A	3A
				XW, XN	–	5A	3A
			Inductive Load (AC-15)	XA	–	1.5A	1.5A
				XW, XN		3A	1.5A
	Monitor Contacts (NO)	DC	Resistive Load (DC-12)	XA, XW, XN	2A	0.4A	0.2A
			Inductive Load (DC-13)		1A	0.22A	0.1A
		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).
- The rated operating currents are measured at resistive/inductive load types specified in IEC 60947-5-1.

Part Numbers

XA1E - L V 3 11 Q4 V- 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
- Terminal**
 blank: solder tab
 V: PCB
- Voltage Code**
 blank: Non-Illuminated
 Q4: Illuminated 24V AC/DC

XW1E - L V 4 11 Q4M - 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
 02: 2NC
 13: 1NO - 3NC
 04: 4NC
 22: 2NO-2NC
 12: 1NO-2NC (Push-ON LED only)
- Voltage Code**
 blank: Non-Illuminated
 Q4: Illuminated 24V AC/DC

XN1E - L V 4 02 Q4 MR

- Bezel**
 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)
- Contact Configuration***
 11: 1NO - 1NC
 02: 2NC
 13: 1NO - 3NC
 22: 2NO - 2NC
 04: 4NC
 12: 1NO-2NC (Push-ON LED only)
- Voltage Code**
 blank: Non-Illuminated
 Q4: 24V AC/DC (Illuminated & Push-ON LED type)

*Contact IDEC for additional contact configurations.

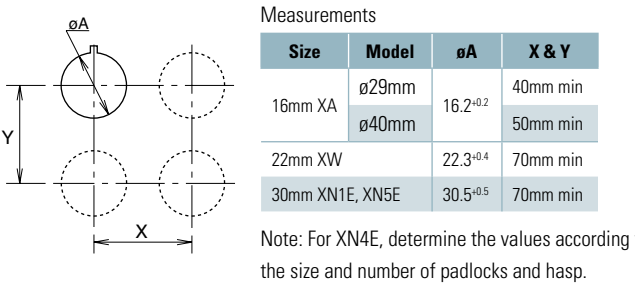
Illuminated Unit LED Ratings

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

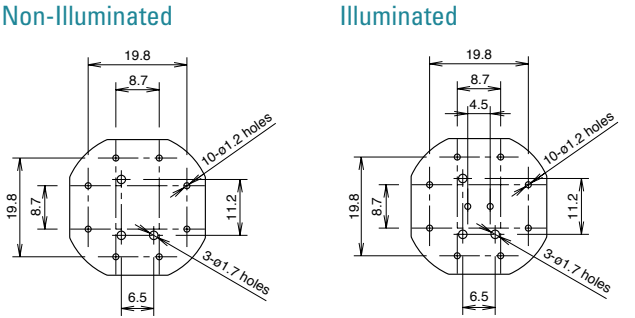
Depth Behind the Panel

Model	Depth (mm)	Description
16mm XA	27.9	1 - 4 contacts, both illuminated & non-illuminated
22mm XW	48.7	1 - 4 contacts, both illuminated & non-illuminated
	47.7	1 - 4 contacts, plastic bezel
30mm XN	60.4	1 - 4 contacts, flush bezel
	61.4	1 - 4 contacts, padlock

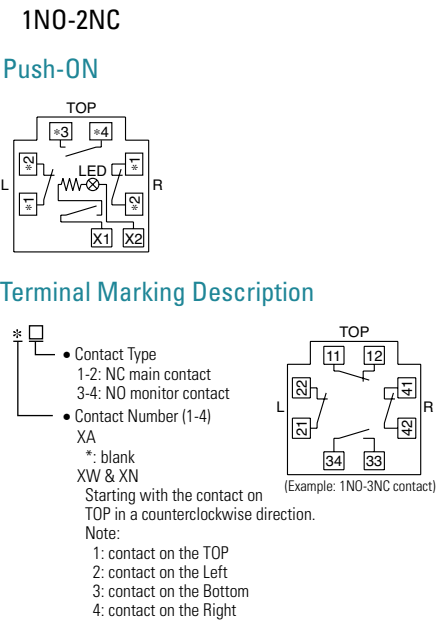
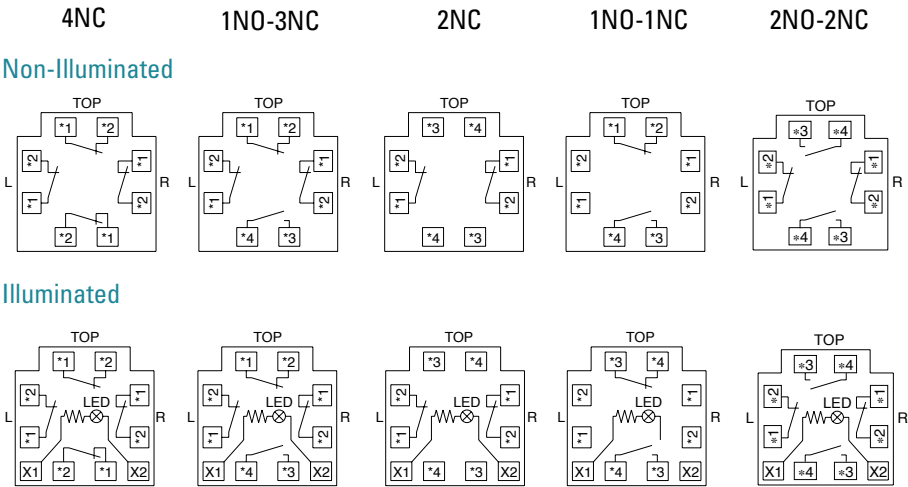
Mounting Hole Layout



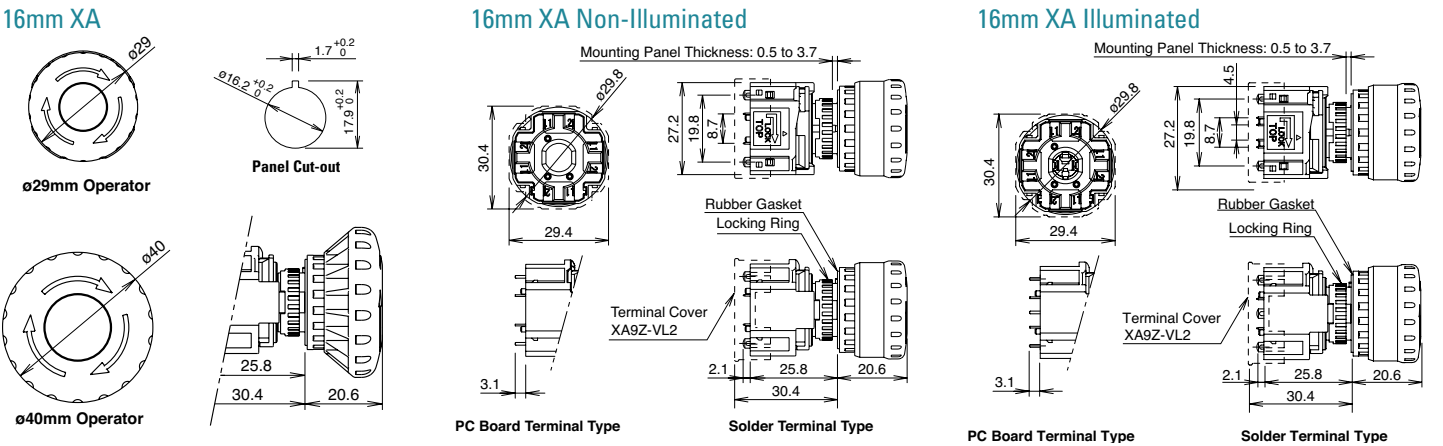
PC Board Layout - Bottom View (for 16mm XA only)



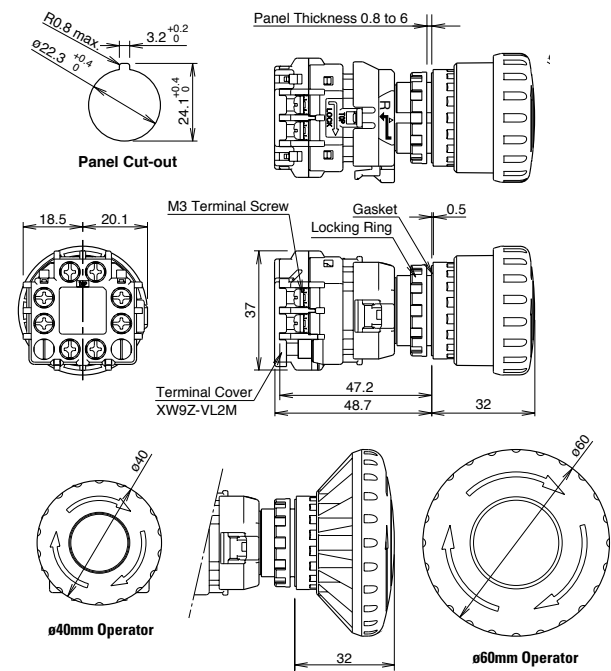
Terminal Arrangements (Bottom View)



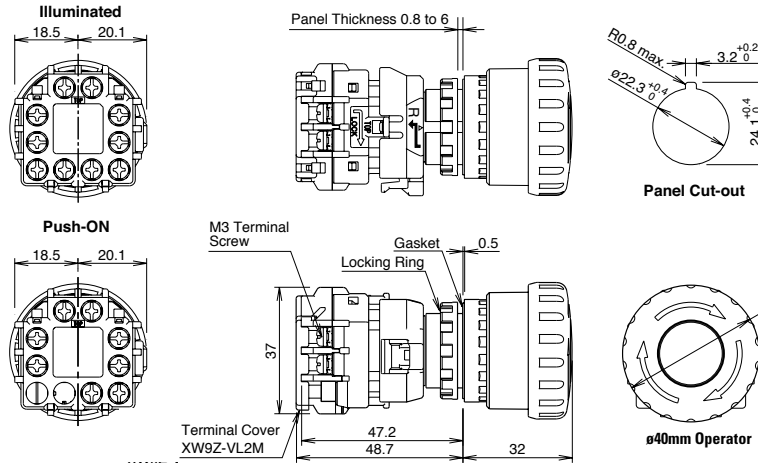
Dimensions (mm)



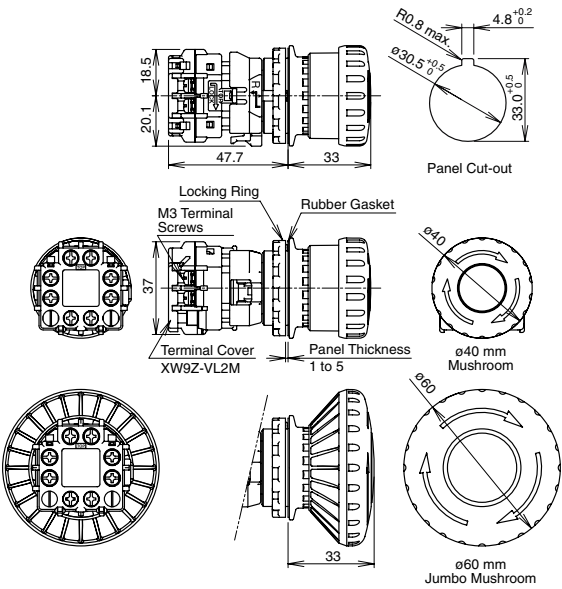
22mm XW Non-Illuminated (with terminal cover)



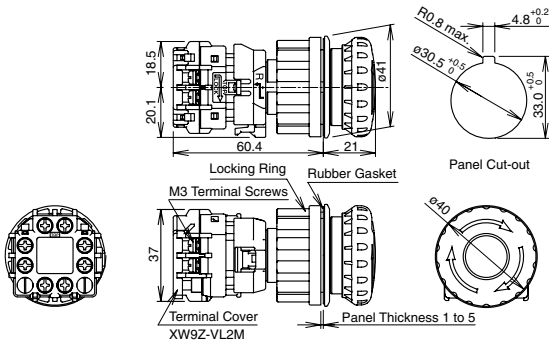
22mm XW LED Illuminated/Push-ON (with terminal cover)



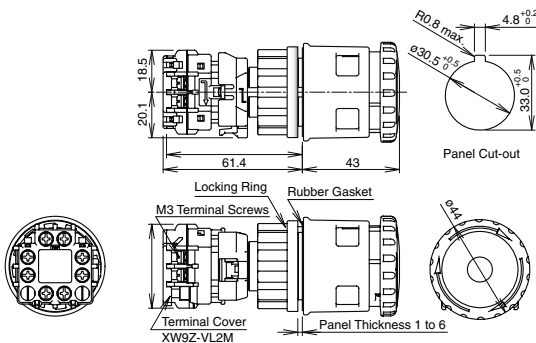
30mm XN1E Non-Illuminated (with terminal cover)



30mm XN5E Non-Illuminated (with terminal cover)



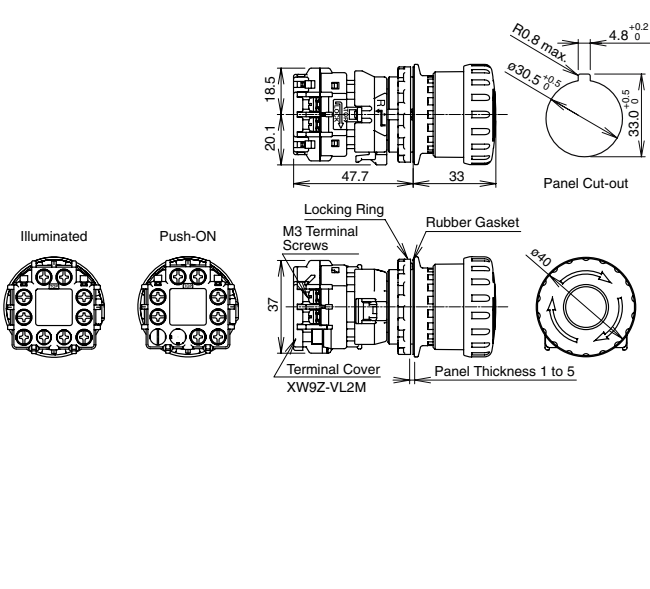
30mm XN4E Non-Illuminated (with terminal cover)



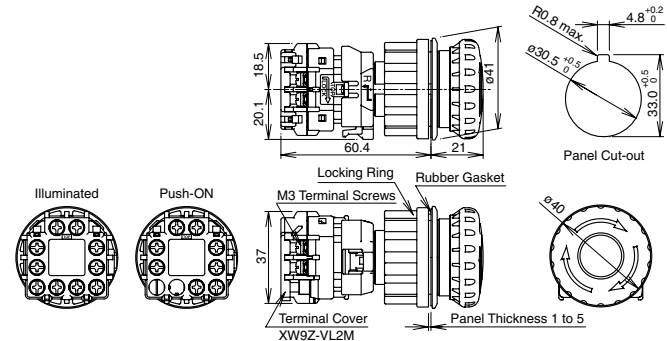
Accessories

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

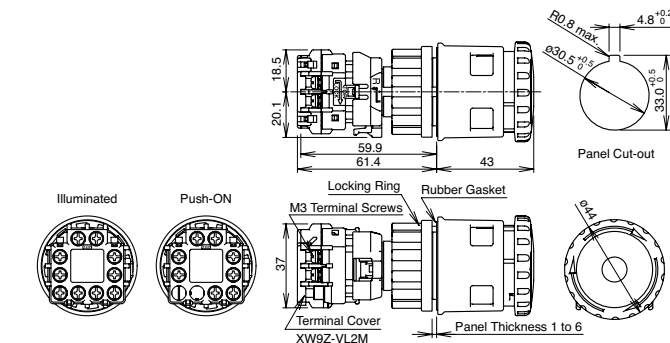
30mm XN1E Illuminated/Push-ON (with terminal cover)



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



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



For more information on the these
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Catalog No. XS9Y-DS100-1 01/10 10K

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

Features

- 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)
- 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

Specifications

	ø16mm - XA	ø22mm - XW	ø30mm - XN	
Applicable Standards	IEC60947-5-1, EN60947-5-1, IEC60947-5-5, EN60947-5-5			
	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			
Operating Force	Push-to-lock: 10.5N Pull-to-reset: 10N Turn-to-reset: 0.16N·m	Push-to-lock: 32N Pull-to-reset: 21N Turn-to-reset: 0.27 N·m	XN1E, XN5E Push-to-lock: 32N Pull-to-reset: 21N Turn-to-reset: 0.27 N·m	XN4E Push-to-lock: 32N Pull-to-reset: N/A Turn-to-reset: 0.4 N·m
Minimum Force Required for Direct Opening Action	60N	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 (inside LED unit: 2)	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	IP65 (IEC60529)	Operator: IP65 (IEC60529) Terminal: IP20 (when XW9Z-VL2MF is installed)		
Conditional Short-circuit Current	1000A			
Terminal Style	Solder terminal, PC board terminal	M3.0 screw terminal		
Recommended Tightening Torque for Locking Ring	0.88N·m	2.0 N·m	2.5 N·m	
Connectable Wire	1.25mm ² maximum (16 AWG max)	0.75 to 1.25mm ² (16 AWG max)		
Soldering Conditions	310 to 350°C, 3 seconds maximum			
Weight	ø29mm: 23g ø40mm: 28g	ø40mm: 72g ø60mm: 81g	Plastic bezel: 83g (ø40 mm), 93g (ø60 mm) Flush bezel: 89g Padlock type: 20g	



X-ON Electronics

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