

Class 9001 Type K 30 mm Push Buttons



The Class 9001 Type K family of push buttons, pilot lights and selector switches are heavy-duty products for heavy-duty applications. They offer interchangeable color inserts, color caps, contact blocks and light modules for customer flexibility and reduced inventory.

In addition, all contact blocks can be mounted side-by-side and/or in tandem to minimize enclosure space requirements. Further, the Type K was the first automotive manufacturing approved 30 mm operator.

- Heavy-duty, oil-tight, dust-tight and water-tight without boots
- Rated UL Types 4 and 13
- Universal color caps reduce inventory, provide more flexibility
- Fingersafe® contact blocks and light modules for improved safety
- Color-coded contact blocks for ease of use and troubleshooting
- Single screw mounting of contact blocks for quick installation

Type K Momentary Contact Push Buttons (non-illuminated)

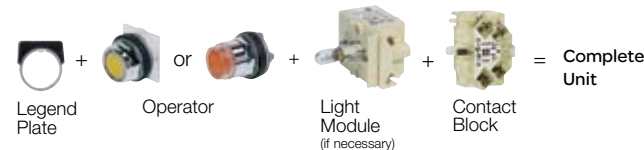
Operator Type		Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13	
Contact	Color	Non-illuminated	
Full Guard			
	None	●	9001KR1B
	1 N.O.	●	9001KR1GH5
	1 N.C.	●	9001KR1RH6
	1 N.O./1 N.C.	(2)	9001KR1(2)H13
1 N.O./1 N.C.	Ⓞ	9001KR1UH13**	
No Guard			
	None	●	9001KR3B
	1 N.O.	●	9001KR3GH5
	1 N.C.	●	9001KR3RH6
	1 N.O./1 N.C.	(2)	9001KR3(2)H13
1 N.O./1 N.C.	Ⓞ	9001KR3UH13**	
Extended Guard			
	None	●	9001KR2B
	1 N.O.	●	9001KR2GH5
	1 N.C.	●	9001KR2RH6
	1 N.O./1 N.C.	(2)	9001KR2(2)H13
1 N.O./1 N.C.	Ⓞ	9001KR2UH13**	
Mushroom Button 1 3/4 in. Dia. Head			
	None	●	9001KR4B
	1 N.O.	●	9001KR4GH5
	1 N.C.	●	9001KR4RH6
	1 N.O./1 N.C.	(4)	9001KR4(4)H13
Mushroom Button 2 1/4 in. Dia. Head			
	None	●	9001KR5B
	1 N.O.	●	9001KR5GH5
	1 N.C.	●	9001KR5RH6**
	1 N.O./1 N.C.	(4)	9001KR5(4)H13

- (1) Insert light module assembly code. See light modules table for selections.
 - (2) Insert color codes for Types KR1, 2, 3; B: ●, L: ●, E: ●, G: ●, S: ●, R: ●, W: ●, Y: ● and UNIVERSAL: Ⓞ
 - (3) Insert lens color codes for Types K, L: L: ●, G: ●, R: ●, W: ●, Y: ●, A: ● and C: ●
 - (4) Insert color codes for Types KR4, 5, 24, 25; B: ●, L: ●, G: ●, S: ●, R: ● and Y: ●
- ** Universal inserts contain one each of the following color inserts: black, blue, green, orange, red, white and yellow. No "universal" mushroom heads.
 *** Red mushroom head knobs can be imprinted with "EMERGENCY STOP" in raised white letters. Use color code "R05 instead of R," snap-in only.

Type K Momentary Contact Push Buttons (illuminated)

Operator Type		Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13	
Contact	Color	illuminated	
Full Guard			
	1 N.O.	●	9001K1L(1)A
	1 N.C.	●	9001K1L(1)GH5
	1 N.O./1 N.C.	●	9001K1L(1)RH6
	1 N.O./1 N.C.	(3)	9001K1L(1)(3)H13
No Guard			
	1 N.O.	●	9001K2L(1)A
	1 N.C.	●	9001K2L(1)GH5
	1 N.O./1 N.C.	●	9001K2L(1)RH6
	1 N.O./1 N.C.	(3)	9001K2L(1)(3)H13
Extended Guard			
	1 N.O.	●	9001K3L(1)A20
	1 N.C.	●	9001K3L(1)G20H5
	1 N.O./1 N.C.	●	9001K3L(1)R20H6
	1 N.O./1 N.C.	(3)	9001K3L(1)(3)20H13
Mushroom Button 1 3/4 in. Dia. Head			
	None	●	9001K2L(1)A20
	1 N.O.	●	9001K2L(1)G20H5
	1 N.C.	●	9001K2L(1)R20H6
	1 N.O./1 N.C.	(3)	9001K2L(1)(3)20H13
Mushroom Button 2 1/4 in. Dia. Head			
	None	●	9001K2L(1)A21
	1 N.O.	●	9001K2L(1)G21H5
	1 N.C.	●	9001K2L(1)R21H6
	1 N.O./1 N.C.	(3)	9001K2L(1)(3)21H13

- (1) Insert light module assembly code. See light modules table for selections.
 - (2) Insert color codes for Types KR1, 2, 3; B: ●, L: ●, E: ●, G: ●, S: ●, R: ●, W: ●, Y: ● and UNIVERSAL: Ⓞ
 - (3) Insert lens color codes for Types K, L: L: ●, G: ●, R: ●, W: ●, Y: ●, A: ● and C: ●
 - (4) Insert color codes for Types KR4, 5, 24, 25; B: ●, L: ●, G: ●, S: ●, R: ● and Y: ●
- ** Universal inserts contain one each of the following color inserts: black, blue, green, orange, red, white and yellow. No "universal" mushroom heads.
 *** Red mushroom head knobs can be imprinted with "EMERGENCY STOP" in raised white letters. Use color code "R05 instead of R," snap-in only.



Type K Multi-Function Push Buttons (non-illuminated)

Operator Type		Heavy Duty, Oil-tight, Water-tight, NEMA 4, 13	
Contact	Color	Non-illuminated	
3 Position Mom.-Push Maint.-Neutral Mom.-Pull			
	None	●	9001KR8A
	1 N.C./N.C.E.C.	●	9001KR8RH25**
	1 N.C./N.C.E.C.	●	9001KR8GH25
	1 N.C./N.C.E.C.	(2)	9001KR8(2)H25
2 Position Maint.-Push Maint.-Pull			
	None	●	9001KR9A
	1 N.C.	●	9001KR9RH6**
	1 N.O./1 N.C.	●	9001KR9GH13
	1 N.C./N.C.E.C.	(2)	9001KR9(2)H13
2 Position, Trigger-Action, Turn-to-Release Emergency Stop			
	None	●	9001KR16
	2 N.O./2 N.C.	●	9001KR16H2
	1 N.O./1 N.C.	●	9001KR16H13

Type K Multi-Function Push Buttons (illuminated)

Operator Type		Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13	
Contact	Color	illuminated	
3 Position Mom.-Push Maint.-Neutral Mom.-Pull			
	None	●	9001KR8P(1)A
	1 N.C./N.C.E.C.	●	9001KR8P(1)RH25**
	1 N.C./N.C.E.C.	●	9001KR8P(1)GH25
	1 N.C./N.C.E.C.	(2)	9001KR8P(1)(2)H25
2 Position Maint.-Push Maint.-Pull			
	None	●	9001KR9P(1)A
	1 N.C.	●	9001KR9P(1)RH6
	1 N.O./1 N.C.	●	9001KR9P(1)GH13
	1 N.O./1 N.C.	(2)	9001KR9P(1)(2)H13

- (1) Insert light module assembly code. See light modules table for selections.
- (2) Color codes for Types KR8 and KR9 illuminated and non-illuminated: B: ●, L: ●, G: ●, S: ●, R: ●, W: ●, Y: ●, A: ● and C: ●. Available in gloved knobs (add F to color code. Example: FB for Black).

Type K Pilot Lights

Pilot Light Type	Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13	
Color	Non-illuminated	illuminated
Standard		
	●	9001KP(1)A31
	●	9001KP(1)R31
	●	9001KP(1)G31
	(4)	9001KP(1)(4)
Push-to-test		
	●	9001KT(1)A31
	●	9001KT(1)R31
	●	9001KT(1)G31
	(4)	9001KT(1)(4)
Remote Test		
	●	9001KTR(5)A31
	●	9001KTR(5)R31
	●	9001KTR(5)G31
	(4)	9001KTR(5)(4)

- (1) Insert light module assembly code. See light modules table for selections.
- (4) Color codes: A31→L31→C31→G31→R31→W31→Y31
- (5) For KTR, use only full voltage light modules; AC use only. See Light Modules table.

Type K Maintained Contact Selector Switches

Operator Type		Heavy-duty, Oil-tight, Water-tight, NEMA 4, 13	
0 = Open Contact 1 = Contact		Non-illuminated	illuminated
Description	Sequence	Color	Color
2 Position			
Off-On	None	● 9001KS11B	● 9001K11J(1)R
	0 1	(2) 9001KS11(2)H36	● 9001K11J(1)GH36
One contact closed per position	0 1	● 9001KS11BH13	(2) 9001K11J(1)(2)H13
	1 0		
3 Position			
Hand-Off-Auto	None	● 9001KS43B	● 9001K43J(1)R
	1 0 0 0 0 1	● 9001KS43BH13	● 9001K43J(1)GH13
One contact closed per position	1 0 0 0 1 0 0 0 1	● 9001KS46BH28	(2) 9001K46J(1)(2)H28
	0 0 1 1 0 0 0 1 0 0 0 1	(2) 9001KS46(2)H28	● 9001K46J(1)GH28
Two contacts closed per position	1 0 0 0 1 0 0 0 1	● 9001KS46RH103	— —
	0 1 0 1 0 0 0 0 1	● 9001KS46RH103	● 9001K46J(1)RH103
	1 0 0 0 1 0 0 0 1	● 9001KS46GH103	● 9001K46J(1)GH103
	0 0 1 1 1 0 0 1 1	● 9001KS42BH7	● 9001K42J(1)GH7
One contact closed per position	1 0 0 0 1 0 0 0 1	● 9001KS88B	● 9001K88J(1)R
	0 1 0 0 0 1 0 0 1	● 9001KS88BH2	● 9001K88J(1)GH2
	0 0 1 0 0 1 0 0 1	(2) 9001KS88(2)H2	(2) K88J(1)(2)H2

- (1) Insert light module assembly code. See light modules table for selections.
- (2) Color codes for Type KS illuminated and non-illuminated selector switch: B: ●, L: ●, G: ●, S: ●, R: ●, W: ●, Y: ●, A: ● and C: ●. Available in gloved knobs (add F to color code. Example: FB for Black).

Accessories

Lamps

	Voltage	Rating	Lamp Number (ANSI)	
	6 V AC/DC	0.9 VA	755	25501-01020
	12-14 V AC/DC	1.2 VA	756	25501-01037
	24-28 V AC/DC	1.2 VA	757	25501-01002
	48 V AC/DC	2.6 VA	48 MB	25501-01025
	120 V AC/DC	3.0 VA	120 MB	25501-01027

For LED lamps, see Schneider Electric's Square D Digest. All transformer light modules use 6 V lamps.



Fingersafe Light Modules

	Description	Type	Assembly Code (1)
	110-120 VAC	9001KM1	1
	220-240 VAC	9001KM7	7
	380-480 VAC	9001KM5	5
	550-600 VAC	9001KM6	6
Full Voltage (2)			
	12-14 VAC/DC	9001KM32	32
	24-28 VAC/DC	9001KM35	35
	48 VAC/DC	9001KM36	36
	120 VAC/DC	9001KM38	38

- (1) Substitute assembly code number in catalog number. Fingersafe removable terminal shroud standard for all light modules.
- (2) For remote test pilot lights, use standard depth, full voltage, AC only.

Legend Plates

Legends are standard black with silver or white letters.

	Standard Aluminum	Standard Aluminum
Blank	9001KN200	9001KN300
Start	9001KN201	9001KN301
Stop*	9001KN202	9001KN302
On	9001KN203	9001KN303
Off	9001KN204	9001KN304
Emerg. Stop*	9001KN205	9001KN305
Forward	9001KN206	9001KN306
Reverse	9001KN207	9001KN307
Close	9001KN208	9001KN308
Open	9001KN209	9001KN309
Down	9001KN210	9001KN310
Up	9001KN211	9001KN311
Run	9001K212	9001K312
Reset	9001KN213	9001KN313
On-Off	9001KN215	9001KN345
Hand-off-Auto	9001KN260	9001KN360
Pull to Start Push to Stop	9001KN279	9001KN379
Specify Mrkg.	9001KN299	9001KN399

* "STOP" and "EMERGENCY STOP" legends have RED backgrounds with SILVER letters for aluminum and BLACK letters for plastic.

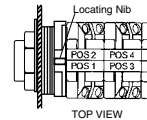
Fingersafe Contact Blocks

	Symbol	Type	Description
		9001KA1	1 N.O./1 N.C.
		9001KA4	1 N.O.E.C./1 N.C.
		9001KA2	1 N.O.
		9001KA6	1 N.O.E.C.
		9001KA3	1 N.C.
		9001KA5	1 N.C.L.O.

N.O. = Normally open, N.C. = Normally closed
 E.C. = Early closing, L.O. = Late opening.

"H" Suffix Numbers for Contact Blocks

Type 9001KA contact blocks are designed to be mounted side-by-side or in tandem. "H" numbers designate contact block arrangement.



		Position					
Suffix #	1	2	3	4	5	6	
H1	9001KA1	—	—	—	—	—	
H2	9001KA1	9001KA1	—	—	—	—	
H5	9001KA2	—	—	—	—	—	
H6	9001KA3	—	—	—	—	—	
H7	9001KA2	9001KA2	—	—	—	—	
H8	9001KA3	9001KA3	—	—	—	—	
H9	9001KA4	9001KA1	—	—	—	—	
H13	—	9001KA1	—	—	—	—	
H14	—	9001KA3	—	—	—	—	
H23	9001KA1	9001KA1	9001KA1	9001KA1	9001KA1	9001KA1	
H24	9001KA1	9001KA2	—	—	—	—	
H25	9001KA5	9001KA3	—	—	—	—	
H28	9001KA1	9001KA2	—	—	—	—	
H36	9001KA1	9001KA1	9001KA3	9001KA3	—	—	

Example: Full guard universal push button with KA1 contact block located in right-hand position (position 2) = 9001KR1UH13.

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Selection Guide

XB4 22 mm Push Buttons



The XB4 chrome push buttons, pilot lights and selector switches are designed for industrial applications. They combine ease of installation and new technology such as protected LED® light modules and spring clamp contact blocks or light modules.

The world's most popular push button is rated both NEMA and UL Types 1, 2, 3, 4, 4X and 13, and IP65 for the most demanding oil-tight, water-tight, dust-tight and corrosion-resistant applications. Properly installed, these devices are UL listed, CSA certified and meet VDE, IEC and European Community Standards. Available locally and globally with consistent part numbering, the XB line is the most extensive offering of control and signaling devices in the world!

Illuminated and Non-Illuminated Color Key

White	Black	Green	Red	Yellow	Blue	Clear	Grey

Push Button Operators

ZB4BA1 ZB4BA2 ZB4BA3 ZB4BA4 ZB4BA5 ZB4BA6 ZB4BA8	ZB4BL1 ZB4BL2 ZB4BL3 ZB4BL4 ZB4BL5 ZB4BL6	ZB4BA16 ZB4BA26 ZB4BA36 ZB4BA46 ZB4BA56 ZB4BA66	ZB4BP1 ZB4BP2 ZB4BP3 ZB4BP4 ZB4BP5 ZB4BP6

ZB4BA133 ZB4BA331 ZB4BA432	ZB4BA333 ZB4BA435
ZB4BA341	
ZB4BL432	ZB4BL434
ZB4BL435	

Mushroom Operators

Available Size(s)		
2 Position Momentary		
30 mm	ZB4BC24	ZB4BC44
40 mm	ZB4BC2	ZB4BC4
60 mm	ZB4BR2	ZB4BR4
Push Maintain/Pull Release		
40 mm	ZB4BT2	ZB4BT84*
60 mm	ZB4BX2	ZB4BT4, ZB4BX4
Push Maintain/Turn Release		
30 mm	ZB4BS42	ZB4BS834*, ZB4BS44
40 mm	ZB4BS52	ZB4BS844*, ZB4BS54
60 mm	ZB4BS62	ZB4BS64
Push Maintain/Key Release		
30 mm	ZB4BS72	ZB4BS934*, ZB4B74
40 mm	ZB4BS12	ZB4BS944*, ZB4B14
60 mm	ZB4BS24	ZB4BS964*, ZB4B24

*Trigger-action emergency stop operators.

Selector Switches

Position		
Standard Black Lever	ZB4BD2 ZB4BD4	ZB4BD3 ZB4BD5 ZB4BD7 ZB4BD8
Extended Black Lever	ZB4BJ2 ZB4BJ4	ZB4BJ3 ZB4BJ5 ZB4BJ7 ZB4BJ8
Key Operator	ZB4BG2 ZB4BG3 ZB4BG7	ZB4BG4 ZB4BG5 ZB4BG8 ZB4BG6 ZB4BG9 ZB4BG1 ZB4BG8

	Contact Block Guide
O X	1 N.O. (left or right)
X O	1 N.C. (left or right)
O X	1 N.O.
X O	1 N.C.

	Contact Block Guide
X O O	1 N.O. left
O X O	2 N.C. wired in series (side by side)
O O X	1 N.O. right
X X O	1 N.C. right
O X X	1 N.C. left
X O X	2 N.O. wired in parallel (side by side)

Pilot Light Heads

Lens Color						
LED or Neon	ZB4BVO13 ZB4BVO33 ZB4BVO43 ZB4BVO53 ZB4BVO63					
Incandescent	ZB4BVO1 ZB4BVO3 ZB4BVO4 ZB4BVO5 ZB4BVO6 ZB4BVO7					

Pilot Light Module (with base)

Lens Color	Light Source	Supply Voltage	Number
	BA 9s Bulbs 2.4 W Max. (not included)	≤ 250 Vac	ZV4BV6
	BA 9s bulb (included)	110-120 Vac 50/60 Hz 230-240 Vac 50/60 Hz 440-480 Vac 60 Hz	ZB4BV3 ZB4BV4 ZB4BV8

Light Source Color	Supply Voltage	Number	Supply Voltage	Number
	24 Vac or Vdc	ZB4BV1 ZB4BV3 ZB4BV4 ZB4BV5 ZB4BV6	110-120 Vac	ZB4BV3 ZB4BV4 ZB4BV5 ZB4BV6

Contact Blocks

N.O.	N.C.	Screw Terminals	Spring Clamps
	1 —	ZB4BZ101	ZB4BZ1015
	— 1	ZB4BZ102	ZB4BZ1025
	—	ZB4BZ103	ZB4BZ1035
	— 2	ZB4BZ104	ZB4BZ1045
	1 1	ZB4BZ105	ZB4BZ1055
	1 —	ZBE101	ZBE1015
	— 1	ZBE102	ZBE1025

Illuminated Push Buttons

Lens Color						
Flush Head Incandescent	ZB4BW31 ZB4BW33 ZB4BW34 ZB4BW35 ZB4BW36 ZB4BW37					
Extended Head LED	ZB4BW13 ZB4BW333 ZB4BW343 ZB4BW353 ZB4BW363					
Extended Head Incandescent	ZB4BW11 ZB4BW13 ZB4BW14 ZB4BW15 ZB4BW16 ZB4BW17					
Extended Head LED	ZB4BW113 ZB4BW133 ZB4BW143 ZB4BW153 ZB4BW163					
Silicon Booted Flush Head	ZB4BW513 ZB4BW533 ZB4BW543 ZB4BW553 ZB4BW563					

LED Light Modules (screw terminal) with Mounting Base and Contact Blocks

Lens Color						N.O.	N.C.
24 Vac or Vdc	ZB4BWOB11 ZB4BWOB12 ZB4BWOB13 ZB4BWOB15	ZB4BWOB31 ZB4BWOB32 ZB4BWOB33 ZB4BWOB35	ZB4BWOB41 ZB4BWOB42 ZB4BWOB43 ZB4BWOB45	ZB4BWOB51 ZB4BWOB52 ZB4BWOB53 ZB4BWOB55	ZB4BWOB61 ZB4BWOB62 ZB4BWOB63 ZB4BWOB65	1 —	— 1
110-120 Vac	ZB4BWOG11 ZB4BWOG12 ZB4BWOG13 ZB4BWOG15	ZB4BWOG31 ZB4BWOG32 ZB4BWOG33 ZB4BWOG35	ZB4BWOG41 ZB4BWOG42 ZB4BWOG43 ZB4BWOG45	ZB4BWOG51 ZB4BWOG52 ZB4BWOG53 ZB4BWOG55	ZB4BWOG61 ZB4BWOG62 ZB4BWOG63 ZB4BWOG65	1 —	— 1

Incandescent Light Modules (screw terminal) with Mounting Base and Contact Blocks

Light Source	Supply Voltage	N.O.	N.C.	Number
	BA 9s bulbs 2.4 W max. (order lamp separately)	≤ 250 Vac	1 —	ZB4BW061
			— 1	ZB4BW062
			2 —	ZB4BW063
			1 1	ZB4BW065
Transformer Type	BA 9s Incandescent bulb (included)	110-120 Vac 50/60 Hz 230-240 Vac 50/60 Hz	1 — 1 1	ZB4BW031 ZB4BW035
			1 — 1 1	ZB4BW041 ZB4BW045

Lamps

Voltage	Wattage	Number
6 V	1.5 w	DL1CB006
12 V	2.6 w	DL1CE012
24 V	2.6 w	DL1CE024
130 V	2.6 w	DL1CE130

Single LED Light Modules (without mounting base, without contact blocks)

Lens Color					
Screw Terminals	ZBVB1 ZBVB3 ZBVB4 ZBVB5 ZBVB6				
110-120 Vac	ZBVG1 ZBVG3 ZBVG4 ZBVG5 ZBVG6				
Spring Clamps	ZBVB15 ZBVB35 ZBVB45 ZBVB55 ZBVB65				
24 Vac or Vdc	ZBVG15 ZBVG35 ZBVG45 ZBVG55 ZBVG65				
110-120 Vac	ZBVG15 ZBVG35 ZBVG45 ZBVG55 ZBVG65				

Reset Operators

Lens Color				Actuation Distance	Travel
	ZB4BA821 ZB4BA822 ZB4BA821	ZB4BA841 ZB4BA842 ZB4BA841	ZB4BA861 ZB4BA862 ZB4BA861	0.24-0.63 in. (6-16 mm) 0.63-1.02 in. (16-26 mm) 1.18-5.12 in. (30-130 mm)	0.39 in. (10 mm) 0.55 in. (14 mm)
	ZB4BA921 ZB4BA922	ZB4BA941 ZB4BA942	ZB4BA961 ZB4BA962	5.12-10.12 in. (130-257 mm)	

Joystick Controllers

Joystick Controller	1 step 1 N.O. contact per direction	2 direction	XD4PA12: Spring Returned XD4PA22: Maintained
		4 direction	XD4PA14: Spring Returned XD4PA24: Maintained

Potentiometer Operator

Potentiometer Operator	For potentiometer with shaft length 1.73 in. to 1.97 in. (44 mm to 50 mm)	For shaft 0.25 in. (6.35 mm) diameter	ZB4BD922
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PVC Legend Plates

30 X 40 mm	Markings	Number
	OFF (red background)	ZBY2931
	I	ZBY2147
	STOP	ZBY2304
	AUTO-HAND	ZBY2364
	CLOSE	ZBY2314
	DOWN	ZBY2308
	EMERGENCY STOP	ZBY2330
	FAST	ZBY2328
	FORWARD	ZBY2305
	HAND	ZBY2316
	HAND-OFF-AUTO	ZBY2387
	INCH	ZBY2321
	OFF	ZBY2312
	OFF-ON	ZBY2367
	ON	ZBY2311
	OPEN	ZBY2313
	POWER ON	ZBY2326
	RESET (red background)	ZBY2323
	REVERSE	ZBY2306
	RUN	ZBY2334
	SLOW	ZBY2327
	START	ZBY2303
	STOP-START	ZBY2366
	UP	ZBY2307

Yellow Contrast Plates

Markings	Number
	60 mm Round
Unmarked	ZBY9101
"Emergency Stop"	ZBY9330
	90 mm Round
Unmarked	ZBY8101
"Emergency Stop"	ZBY8330

Push Button Selection Guide



Make the most of your energySM