

30 mm Multifunction Operators UL Types 4, 4X, 13/NEMA 4, 4X, 13

Table 19.250: Non-Illuminated Push-Pull Screw-on Mushroom Operators, Plastic Head^[73]


	Description	Color	With 2 N.C. Contacts (1 KA3, 1 KA5)	With 1 N.O. / 1 N.C. Contact (1 KA1)	Without Contacts ^[74]
 <p>9001SKR9R Non-Illuminated 1-5/8 in. Diameter Knob Includes Type KN179WP Legend Plate Marked Pull To Start Push To Stop</p>	3 Position				
	Momentary Pull-Maintained Neutral-Momentary Push ^[75]	Red	SKR8RH25	—	SKR8R
		Green	SKR8GH25	—	SKR8G
		Other ^[76]	SKR8▲H25	—	SKR8▲
	2 Position^[77]				
	Maintained Pull-Maintained Push	Red	—	SKR9RH13	SKR9R
Green		—	SKR9GH13	SKR9G	
Other ^[76]		—	SKR9▲H13	SKR9▲	

Table 19.251: Non-Illuminated Turn-to-Release Mushroom Operators^[73]


	Description	Color	With 1 N.O. Contact (KA1)	With 2 N.O. / 2 N.C. Contacts (2 KA1)	Without Contacts
 <p>9001SKR16H2</p>	2 Position, Plastic Head Turn-to-Release Trigger Action	Red	SKR16H13	SKR16H2	SKR16

Table 19.252: Screw-On Plastic Illuminated Push-Pull Mushroom Operators^[73]


Illuminated	Description	Voltage	With Red Knob and 2 N.C. Contacts (1 KA3, 1 KA5) ^[78]	With Other Color Knob and 2 N.C. Contacts ^[76] ^[78]	With Other Color Knob Without Contacts ^[74] ^[76] ^[78]
 <p>9001SKR9P1 Illuminated 1-5/8 in. Diameter Knob Includes Type KN179WP Legend Plate Marked Pull to Start Push To Stop</p>	3 Position				
	Momentary Pull-Maintained Neutral-Momentary Push ^[79]	110–120 V, 50–60 Hz	SKR8P1RH25	SKR8P1▲H25	SKR8P1▲
		Other—Transformer, LED, Flashing ^[80]	SKR8P♦RH25	SKR8P♦▲H25	SKR8P♦▲
		Other—Full Voltage, Resistor, Neon ^[75]	SKR8P♦RH25	SKR8P♦▲H25	SKR8P♦▲
	2 Position				
	Maintained Pull-Maintained Push	110–120 V, 50–60 Hz	SKR9P1RH13	SKR9P1▲H13	SKR9P1▲
Other—Transformer, L.E.D., Flashing ^[80]		SKR9P♦RH13	SKR9P♦▲H13	SKR9P♦▲	
Other—Full Voltage, Resistor, Neon ^[75]		SKR9P♦RH13	SKR9P♦▲H13	SKR9P♦▲	

Table 19.253: Color Codes

Color	SKR11, SKR12	SKR8, SKR9
Black ^[81]	B	B
Red	R	R
Green	G	G
Blue	L	L
Yellow	Y	Y
White	W	W
Orange ^[81]	S	S
Clear	—	—
Amber	—	A
Gray	E	—

Table 19.254: Positions for 9001SKR8RH1 or H13

	9001SKR8RH1 or H13			
	KA3	PULL	CTR	PUSH
(KA1)	X	O	O	O
	KA2	O	O	X

Table 19.255: Positions for 9001SKR8H25

	9001SKR8H25			
	KA3	PULL	CTR	PUSH
	KA5	X	O	O
	KA2	O	O	X

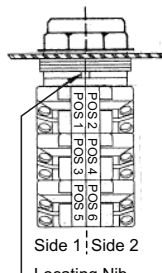
NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see [Type KA Contact Blocks, page 19-90](#) through [Hermetically Sealed Power Reed Contact Blocks, page 19-92](#).

^[73] When ordering, add prefix 9001 to the catalog number.
^[74] These operators can be ordered complete with contact blocks. For maximum block usage, see [Table 19.280 "H" Codes, page 19-93](#). Add the chosen "H" number to the end of the operator.
^[75] On neon light modules, use clear knobs only.
^[76] ▲ See [Table 19.253 Color Codes, page 19-83](#) and insert the color code in the Type number. Example: SKR9() with a yellow knob = SKR9Y
^[77] To obtain a red knob with "Push Emergency Stop" printed on the red knob—substitute "R05" in place of "R"
^[78] ♦ Add the voltage assembly code as chosen from [Standard and Shallow Depth Light Modules, page 19-91](#). Example: SKR8P♦ with 277 V 50–60 Hz = SKR8P8
^[79] For positions, refer to [Table 19.254 Positions for 9001SKR8RH1 or H13, page 19-83](#) and [Table 19.255 Positions for 9001SKR8H25, page 19-83](#).
^[80] The knob must be the same color as the LED light module chosen, for example, for a green LED, use a green knob.
^[81] These colors are not available on illuminated push-pull operators.

Type K, SK, and KX Contact Block "H" Numbers

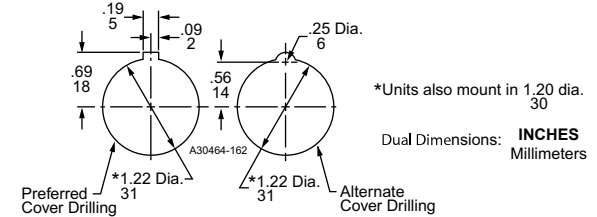
The design of Class 9001 Type KA contact blocks allows them to be mounted side by side and/or in tandem. This enables you to specify an operator and a specific arrangement of contact blocks (shipped fully assembled) with a single Type number.

Table 19.280: "H" Codes

	Suffix No. (Add to Operator Type)	Positions					
		1	2	3	4	5	6
Example: A Type KR1B push button with 2 Type KA1 contact blocks would be Class 9001 Type KR1BH2. 	H1	KA1					
	H2	KA1	KA1				
	H3	KA1	KA1	KA1			
	H4	KA1	KA1	KA1	KA1		
	H5	KA2					
	H6	KA3					
	H7	KA2	KA2				
	H8	KA3	KA3				
	H9	KA4	KA1				
	H10	KA4	KA5				
	H11	KA1	KA1		KA1		
	H12	KA2	KA3	KA2	KA3		
	H13		KA1				
	H14		KA3				
	H15	KA2	KA3	KA2	KA3		
	H16	KA2	KA3	KA2	KA3		
	H17	KA1	KA1				
	H18	KA3	KA1	KA2			
	H19	KA1	KA1	KA3		KA3	
	H21	KA2	KA3	KA1	KA1	KA1	
H23	KA1	KA1					
H24	KA1	KA2	KA1	KA1	KA1	KA1	
H25	KA5	KA3					

NOTE: For "H" Codes not in this table, contact your local Schneider Electric Customer Care Center.

Mounting Hole for All Types K, SK, and KX Control Units



- Maximum Contact Block Usage (Includes Types K, SK and KX)**
- **2 blocks mounted side by side only:** Any 2, 3 or 4 position spring return selector switch (non-illuminated, illuminated or keyed).
 - **2 blocks mounted in tandem 1 side only:** Any 2 operator interlocked push button.
 - **2 blocks mounted in tandem (total of four blocks):** Any selector push button, keyed push button, 2, 3, or 4 position maintained selector switch (non-illuminated, illuminated or keyed), push-pull operators (non-illuminated or illuminated), joy stick, dual push button.
 - **3 blocks mounted in tandem (total of six blocks):** Single momentary push buttons (non-illuminated or illuminated).

Table 19.281: Dimensions When Using Contact Blocks

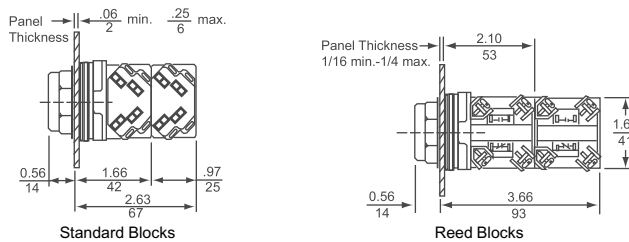


Table 19.282: Basic Operators (Without Color Caps, Mushroom Buttons, Knobs, Selector Switch Cams, Contact Blocks, Light Modules, or Legend Plates)

Description	For UL Types/NEMA	
	1, 3R, 4, 12, 13 [137]	4, 4X, 13 [137]
Non-Illuminated Push Button (Extended Guard)	KR2	SKR2
Non-Illuminated Push Button (No Guard)	KR3	SKR3
Non-Illuminated Push Button (Mushroom Button/Screw-On)	KR20	SKR20
Non-Illuminated Dual Push Button (Momentary)	KR6	—
Non-Illuminated Dual Push Button (Momentary Interlocked)	KR67	—
Non-Illuminated Dual Push Button (Maintained Interlocked)	KR7	—
Momentary Pull—Maintained Neutral—Momentary Push	KR8 [138] [139]	SKR8 [138]
Maintained Pull—Maintained Push	KR9 [138] [139]	SKR9 [138]
Illuminated Push Button (Full Guard—Plastic Top)	K1L [140]	SK1L [140]
Illuminated Push Button and Push-To-Test (No Guard)	K2L [140] [141]	SK2L [140] [141]
Illuminated Push Button (Full Guard—Metal Top)	K3L [140]	—
Standard Pilot Light	KP	SKP
3 Position Maintained Selector Switch	KS4 [138]	SKS4 [138]
3 Position Spring Return Both Sides To Center—Selector Switch	KS5 [138]	SKS5 [138]
3 Position Spring Return Left To Center—Selector Switch	KS6 [138]	SKS6 [138]
3 Position Spring Return Right To Center—Selector Switch	KS7 [138]	SKS7 [138]

Table 19.283: Min. Centerline Spacing, Type K & SK Control Units

Legend Plate	Operator	Centerline Spacing (in.)					
		A	B	C	D	E	F
Legend Plate Orientation Position #1							
KN2	Standard Push Button	1.75	1.31	1.44	2.25	1.69	0.88
	1.375 in. Dia. Mushroom	1.75	1.31	1.44	2.25	1.69	0.88
KN5	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12
	Selector Switch Knobs	1.75	1.31	1.44	2.25	1.69	0.88
KN3	Standard Push Button	2.00	1.31	1.44	2.25	1.75	0.88
	1.375 in. Dia. Mushroom	2.00	1.31	1.44	2.25	1.75	0.88
KN3	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12
	Selector Switch Knobs	2.00	1.31	1.44	2.25	1.75	0.88
KN4	Standard Push Button	1.94	1.31	1.44	2.25	1.62	0.88
	1.375 in. Dia. Mushroom	1.94	1.31	1.44	2.25	1.62	0.88
KN4	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12
	Selector Switch Knobs	1.74	1.31	1.44	2.25	1.62	0.88
KN6	Standard Push Button	2.38	1.62	1.44	2.25	2.25	1.12
	1.375 in. Dia. Mushroom	2.38	1.62	1.44	2.25	2.25	1.12
KN6	2.25 in. Dia. Mushroom	2.38	1.62	1.44	2.25	2.25	1.12
	Selector Switch Knobs	2.38	1.62	1.44	2.25	2.25	1.12
Legend Plate Orientation Position #2							
KN2	Standard Push Button	1.62	1.31	1.44	2.25	1.75	0.88
	1.375 in. Dia. Mushroom	1.62	1.31	1.44	2.25	1.75	0.88
KN5	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12
	Selector Switch Knobs	1.62	1.31	1.44	2.25	1.75	0.88
KN3	Standard Push Button	1.75	1.31	1.44	2.25	2.00	0.88
	1.375 in. Dia. Mushroom	1.75	1.31	1.44	2.25	2.00	0.88
KN3	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12
	Selector Switch Knobs	1.75	1.31	1.44	2.25	2.00	0.88
KN4	Standard Push Button	1.62	1.31	1.44	2.25	1.94	1.00
	1.375 in. Dia. Mushroom	1.62	1.31	1.44	2.25	1.94	1.00
KN4	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12
	Selector Switch Knobs	1.62	1.31	1.44	2.25	1.94	1.00
KN6	Standard Push Button	2.25	1.31	1.62	2.38	2.38	0.88
	1.375 in. Dia. Mushroom	2.25	1.31	1.62	2.38	2.38	0.88
KN6	2.25 in. Dia. Mushroom	2.25	1.31	1.62	2.38	2.38	1.12
	Selector Switch Knobs	2.25	1.31	1.62	2.38	2.38	0.88

[137] When ordering, add prefix 9001 to the catalog number.

[138] Operator can be converted to an illuminated operator by removing the liner (6512240601) and adding a light module.

[139] These operators can be supplied with 1-3/8 in. or 2-1/4 in. dia. mushroom buttons. For 1-3/8 in.: add () 20 to type number. For 2-1/4 in.: Add () 21 to type number. The () refers to the color chosen—see Additional Accessories for Type K and SK Operators, page 19-99. Voids UL and NEMA 6 Rating.

[140] Operator can be converted to a non-illuminated operator by adding liner (6512240601).

[141] Operator includes jumper wires for push-to-test conversion.