K8/10/12
Pushbutton & Indicator

Features

- ☐ Installation diameter:8/10/12mm
- ☐ Degree of Protection: IP40
- ☐ Compact design saves space
- ☐ Shade UV
- ☐ LED

Super bright LED cold light source lamp display

Related certification

/Standard	signal	
UII 508		
EN60947-1 EN60947-5-1		
GB 14048.5		

Specifications

Degree of Protection	IP 40 Watertight /Oiltight
Contact Configuration	Single Pole, Double Pole
Maximum Voltage	250V AC/DC
Thermal Current	3A
Minimum Applicable Load	5V AC/DC, 1mA
Contact Material	Gold-plated silver
Terminal Style	.110" Solder/Quick Connect
Operating Temperature	-25℃to +55℃
Operating Humidity	45 to 85% RH
Contact Resistance	50MΩ maximum
Insulation Resistance	100MΩ minimum (500V DC megger)
Vibration Resistance	10 to 55Hz, amplitude 1.2mm p-p
Degree of Protection	>10g
Electrical Life	100,000 operations minimum (at full rated load)
Mechanical Life	Maintained: 1,000,000 operations minimum Momentary: 1,000,000 operations minimum Selecotr /Keylock: 250, 000 operations minimum
Dielectric Strength	Switch Unit: 2,000V AC, 1min. between live/dead part and terminals of different poles; 1,000V AC, 1 minute between terminals of the same pole; 1,500V AC, 1 minute between contact and lamp terminals. Illumination Unit: 2,000V AC, 1min. between live Part/ground
Soldering Temperature	20W/5 Seconds or 260C/3 seconds

Contact Ratings

Working voltage		24V	110V	220V
AC (50/60Hz)	Resistive	—	1.0A	0.5A
	Inductive	—	0.7A	0.5A
DC	Resistive	1.0A	0.2A	—
	Inductive	0.7A	0.1A	—

LED / LED Ratings

Rated Voltage	Current
5V DC ± 5%	8mA
6V AC/DC(± 10%)	AC: A, R, W, Y: 8mA G, S: 7mA DC: A, R, W, Y: 6mA G, S: 5mA
12V AC/DC(± 10%)	AC: 9mA DC: 8mA
24V AC/DC(± 10%)	AC: 9mA DC: 8mA

K8/K10/K12

/ Pushbutton Select Code

K8(K10) – □ □ □ □ □

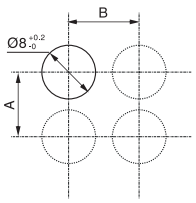
Mounting Size	Operation Style	Operation Characteristic	Contact Structure	Color	Voltage
	1: Indicator 2: Momentary 3: Maintained	1: Round 2: Square 3: Rectangle 7: Round (LED) 8: Square (LED) 9: Rectangle (LED)	0: Nil 1: SPDT(1a+1b)	R / Red G / Green Y / Yellow W / White B / Blue A / Orange	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC

K12 – □ □ □ □ □

Mounting Size	Operation Style	Operation Characteristic	Contact Structure	Color	Voltage
	1: Indicator 2: Momentary 3: Maintained	1: Round 2: Square 3: Rectangle 7: Round (LED) 8: Square (LED) 9: Rectangle (LED)	0: Nil 1: SPDT(1a+1b) 2: DPDT(2a+2b)	R / Red G / Green Y / Yellow W / White B / Blue A / Orange	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC

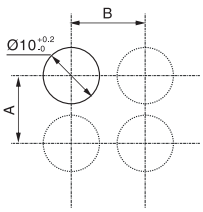
/ Installation size

☐ K8 / K8 Installation size



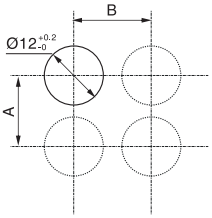
	A	B
	≥10mm	≥10mm
	≥10mm	≥10mm
	≥10mm	≥14mm

☐ K10 / K10 Installation size



	A	B
	≥12mm	≥12mm
	≥12mm	≥12mm
	≥12mm	≥16mm

☐ K12 /K12 Installation size



	A	B
	≥10mm	≥10mm
	≥10mm	≥10mm
	≥10mm	≥14mm

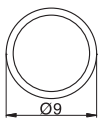
K8/K10/K12

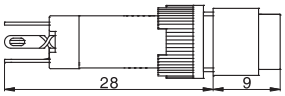
/ K8 Indicator lamp

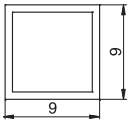
Product appearance			Top Color	Rated Voltage
Round **K8-170**□●	Square **K8-180**□●	/ Rectangle **K8-190**□●	R /Red G /Green Y /Yellow W /White B /Blue	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC

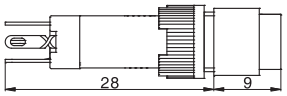
K8 Push button

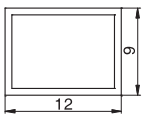
Product appearance	Operation	Illuminated type	Contact	Model	Top Color	Rated Voltage
Round	Momentary	Without LED	SPDT	**K8-211** □●	R Red G Green Y Yellow W White B Blue	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC
		With LED	SPDT	**K8-271** □●		
	Maintained	Without LED	SPDT	**K8-311** □●		
		With LED	SPDT	**K8-371** □●		
Square	Momentary	Without LED	SPDT	**K8-221** □●	R Red G Green Y Yellow W White B Blue	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC
		With LED	SPDT	**K8-281** □●		
	Maintained	Without LED	SPDT	**K8-321** □●		
		With LED	SPDT	**K8-381** □●		
Rectangle	Momentary	Without LED	SPDT	**K8-231** □●	R Red G Green Y Yellow W White B Blue	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC
		With LED	SPDT	**K8-291** □●		
	Maintained	Without LED	SPDT	**K8-331** □●		
		With LED	SPDT	**K8-391** □●		

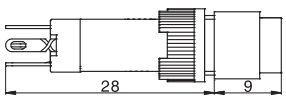












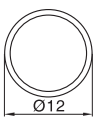
K8/K10/K12

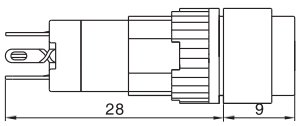
K10 Indicator lamp

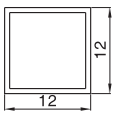
Product appearance	Top Color	Rated Voltage
Round **K10-170**□●	R Red G Green Y Yellow W White B Blue	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC
Square **K10-180**□●		
Rectangle **K10-190**□●		

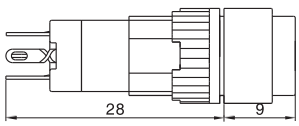
/ K8 Push button

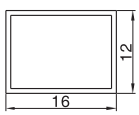
Product appearance	Operation	Illuminated type	Contact	Model	Top Color	Rated Voltage
Round	Momentary	Without LED	SPDT	**K10-211** □●	R Red G Green Y Yellow W White B Blue	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC
		With LED	SPDT	**K10-271** □●		
	Maintained	Without LED	SPDT	**K10-311** □●		
		With LED	SPDT	**K10-371** □●		
Square	Momentary	Without LED	SPDT	**K10-221** □●		
		With LED	SPDT	**K10-281** □●		
	Maintained	Without LED	SPDT	**K10-321** □●		
		With LED	SPDT	**K10-381** □●		
Rectangle	Momentary	Without LED	SPDT	**K10-231** □●		
		With LED	SPDT	**K10-291** □●		
	Maintained	Without LED	SPDT	**K10-331** □●		
		With LED	SPDT	**K10-391** □●		

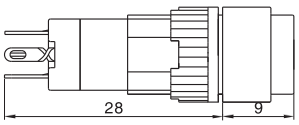












K8/K10/K12

/ K12 Indicator lamp

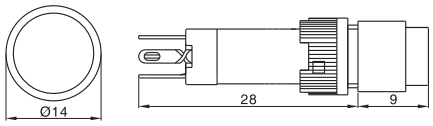
Product appearance	Top Color	Rated Voltage
Round **K12-170** □● CE Square **K12-180** □● CE Rectangle **K12-190**□● CE	R Red G Green Y Yellow W White B Blue	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC

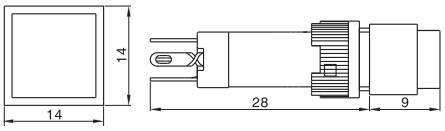
Push button

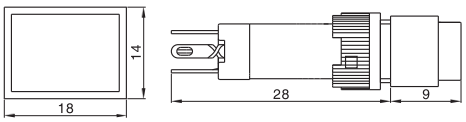
Product appearance	Operation	Illuminated type	Contact	Model	Top Color	Rated Voltage
Round CE	Momentary	Without LED	SPDT	**K12-211** □●	R Red G Green Y Yellow W White B Blue	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC
			DPDT	**K12-212** □●		
		With LED	SPDT	**K12-271** □●		
			DPDT	**K12-272** □●		
	Maintained	Without LED	SPDT	**K12-311** □●		
			DPDT	**K12-312** □●		
		With LED	SPDT	**K12-371** □●		
			DPDT	**K12-372** □●		
Square CE	Momentary	Without LED	SPDT	**K12-221** □●	R Red G Green Y Yellow W White B Blue	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC
			DPDT	**K12-222** □●		
		With LED	SPDT	**K12-281** □●		
			DPDT	**K12-282** □●		
	Maintained	Without LED	SPDT	**K12-321** □●		
			DPDT	**K12-322** □●		
		With LED	SPDT	**K12-381** □●		
			DPDT	**K12-382** □●		
Rectangle CE	Momentary	Without LED	SPDT	**K12-231** □●	R Red G Green Y Yellow W White B Blue	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC
			DPDT	**K12-232** □●		
		With LED	SPDT	**K12-291** □●		
			DPDT	**K12-292** □●		
	Maintained	Without LED	SPDT	**K12-331** □●		
			DPDT	**K12-332** □●		
		With LED	SPDT	**K12-391** □●		
			DPDT	**K12-392** □●		

K8/K10/K12

Dimensions







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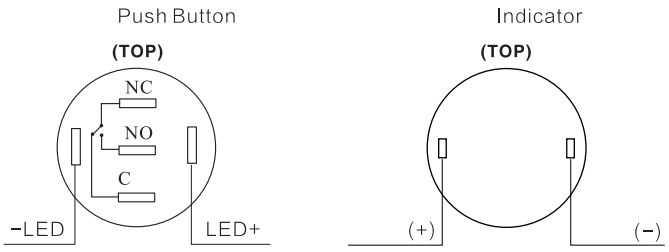
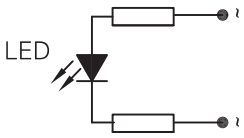


LED Circuit



12VDC, 24VDC, 110VAC,220VAC
for 12VDC, 24VDC, 110VAC, 220VAC