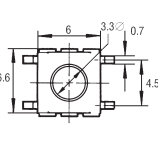


Keyboard Switches and Accessories — continued

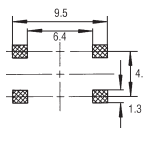
SPNO B3S Series – Sealed



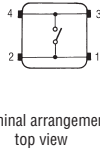
Flat plunger H (max) = 4.3



Dimensions



PCB footprint



Terminal arrangement top view

- Surface mount version of Omron B3W keyswitch
- Sealed construction, suitable for PCB immersion cleaning
- General purpose and high force actuation versions available



Min permissible load	1mA @ 5V dc (resistive)	Mech.+elec. life	500,000 ops min
Contact resistance	100mΩ max	Operating force	160g (230g high force)
Insulation resistance	100MΩ max.	Pre-travel	0.25 ±0.2 – 0.1mm
Dielectric strength	500V ac/dc for 1 min.	Operating temperature	-20°C to +70°C

Mftrs. List No. B3S1000 = 177-807, BS31002 = 959-728

SW209

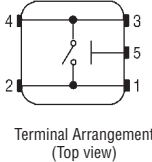
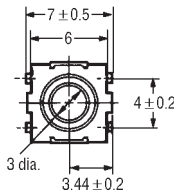
Actuation force	Order Code	Price Each			
		1+	50+	100+	250+ 500+
General purpose	177-807				
High-Force	959-728				

SPNO B3SN Series - Sealed

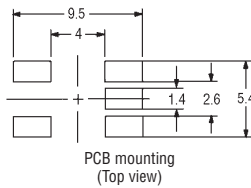
30mA @ 24V dc



Flat plunger H = 3.1



Terminal Arrangement (Top view)



PCB mounting (Top view)

- Low profile, meets high-density mounting requirements
- Compact design - more than 1mm thinner than conventional key switches
- Sealed construction provides high reliability in dusty or humid environments
- Ground terminal for protection against static electricity



Contact rating	30mA	Voltage rating	24V dc
Contact resistance	100mΩ max	Dielectric strength	250V ac
Insulation resistance	100MΩ min	Life cycle	50,000 actuations
Operating temperature	-25°C to +70°C		

Mftrs. List No. B3SN-3112

SW338

Order Code	1+	50+	Price Each	
			100+	250+ 500+
959-730				

SPNO B3WN Series - Sealed



- Unique double sealing construction ensures water tight and dust tight performance
- Ideal for humid environments
- Supplied on radial tape for automatic insertion process
- Above board height allows use where conformal coating is required
- Sealed to IP67

H = 13, W = 8, D = 8 Lead Pitch = 17, Pitch 5

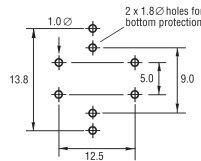
Contact rating	50mA	Minimum load	1mA, @ 5Vdc
Contact resistance	100mΩ	Operating Life	100,000 ops min
Voltage rating	12Vdc		

SW161

Mftrs. List No.	Order Code	Price Each			
		5+	50+	100+	250+ 500+
B3WN-6002	312-0880				

PCB Mount Illuminated, SPNO

50mA @ 24V dc



Min permissible load	1mA @ 5V dc
Mech.+elec. life	10,000,000 ops
Contact resistance	<100mΩ
LED forward current (max)	20mA @ 25°C
Insulation resistance	100MΩ @ 250V dc
Operating temperature	-25°C to +70°C
Dielectric strength	500V ac for 1 min

- Illuminated version of Omron B3F keyswitch
- Choice of 3 colours, LED illumination

SW165

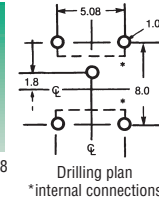
Colour	Mftrs. List No.	Order Code	Price Each		
			1+	100+	250+ 500+
Red	B3F9100	178-873			
Green	B3F9200	178-874			
Yellow	B3F9300	178-875			

PCB Mount, SPNO Momentary

50mA @ 24V dc



H = 5, W = 7.8, D = 7.8



Drilling plan *internal connections

- Low profile snap-action SPNO switch
- Very short stroke 0.3mm
- Precious metal contact system gives long life and reliability

Maximum contact chatter	5ms
Dielectric withstand voltage	250V dc for 1 minute
Operating temperature	-20°C to +80°C

Mftrs. List No.
FES311121 = 146-202, FES311161 = 146-203,
FES311131 = 146-204, FES311171 = 146-205

SW79

Colour	Order Code	Price Each			
		1+	25+	100+	250+ 1000+
Red	146-202				
Dark grey	146-203				
Light grey	146-204				
Blue	146-205				

PCB Mount SPNO, Momentary

D6 Series, 100mA @ 100V ac



D6 square 151-137 to 151-144
H above PCB = 11.5, Max. dia. = 12
Button size = 7.7 7.7 square, Lead pitch = 5 5

D6 round 151-145 to 151-152
H above PCB = 14.5, Max. dia. = 12
Button size = 9.0 dia round, Lead pitch = 5 5

- Tactile feedback contact operation
- Minimum centre spacing of 12.7mm
- Specially designed for digital electronic controls
- Strapped terminals permit X, Y coding
- Round or square styles in a choice of 8 colours

Max. breaking power	6VA	Operating force	1.3N ±30%
Contact resistance	<100mΩ	Travel	0.8mm ±0.2mm
Insulation resistance	100,000MΩ	Contact bounce	<3ms
Operating life	250000 ops	Operating temperature	-20°C to +85°C

	D6 with Square Button		D6 with Round Button	
	Mftrs. List No.	Order Code	Mftrs. List No.	Order Code
Black	532-000-001	.151-137	532-010-001	151-145
Yellow	532-000-002	.151-138	532-010-002	151-146
White	532-000-003	.151-139	532-010-003	151-147
Green	532-000-004	.151-140	532-010-004	151-148
Red	532-000-007	.151-141	532-010-007	151-149
Blue	532-000-008	.151-142	532-010-008	151-150
Grey	532-000-009	.151-143	532-010-009	151-151
Ivory	532-000-011	.151-144	532-010-011	151-152

SW165

Order Code	1+	25+	Price Each	
			100+	250+ 1000+
.All Order Codes				