

Switches and Keypads

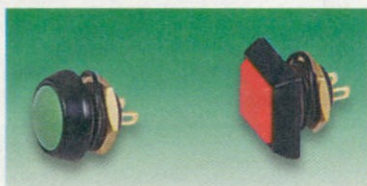
Push Button Switches — continued

SPNO Momentary

0.125A @ 125V ac, 0.4A @ 32V ac, 0.1A @ 50V dc
IP67 Sealed

ITW Switches

Best value



Round Bezel L = 20.0, Bezel dia. = 17.45
Square Bezel L = 20.0, Bezel = 17.45 x 17.45

All Switches
Panel cut-out (single flat) = 13.65 x 12.90,
Max. panel thickness = 3.0mm, Depth behind panel = 13.0mm

- Panel sealed to IP67
- Constructed from NCB 481/1965 approved non-sparking zinc alloy
- Choice of 6 actuator colours, round or square bezel
- Small size, robust construction

Round bezel switches:	Black = 519-315, White = 519-340,	Red = 519-327, Yellow = 519-352,	Green = 519-339, Blue = 519-364
Square bezel switches:	Black = 519-376, White = 519-406,	Red = 519-388, Yellow = 519-418,	Green = 519-390, Blue = 519-420
Contacts	Gold plated palladium nickel		
Contact resistance	50mΩ		
Dielectric strength	1000V ac		
Insulation resistance	1000MΩ		
Electrical life	500,000 ops		
Mechanical life	1,000,000 ops		
Operating temperature	-55°C to +125°C		

Mfrs. List No. Round = 59-11+colour, Square = 59-21+colour

		Price Each					
Order Code		1+	25+	50+	100+	250+	500+
All Switches		4.27	4.06	3.84	3.63	3.43	3.32

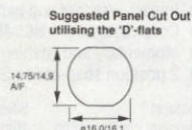
SPNO Momentary – 49-59 Series

0.4A @ 32V ac, 'Sealed'

ITW Switches



L = 23.8, Bezel = 19.8 x 16 L = 23.1, Bezel dia. = 19.8



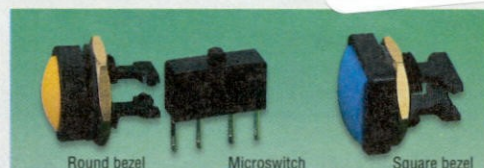
- Industry standard 16mm cut-out
- IP67 rating
- UL94V-0
- Gold contacts, suitable for logic switching
- Ideal for retro-fitting
- 500mm lead termination
- Choice of 6 colours

Current rating (resistive)	0.4A @ 32V ac 0.1A @ 50V dc 0.125A @ 125V ac 60mΩ max. (incl. leads)	Dielectric strength	1000V ac
Contact resistance	60mΩ max. (incl. leads)	Insulation resistance	1000MΩ
Contacts	Gold plated, palladium nickel	Electrical life	500,000 ops
		Mechanical life	1,000,000 ops
		Operating temp.	-55°C to +105°C

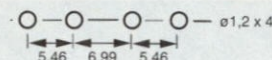
Colour	Mfrs. List No.	Order Code	1+	25+	50+	100+
Round Bezel						
Black	49-59111	.734-070	5.20	4.94	4.68	4.42
Red	49-59112	.734-081	5.20	4.94	4.68	4.42
Green	49-59113	.734-093	5.20	4.94	4.68	4.42
White	49-59114	.734-100	5.20	4.94	4.68	4.42
Yellow	49-59115	.734-111	5.20	4.94	4.68	4.42
Blue	49-59116	.734-123	5.20	4.94	4.68	4.42
Square Bezel						
Black	49-59211	.734-135	5.20	4.94	4.68	4.42
Red	49-59212	.734-147	5.20	4.94	4.68	4.42
Green	49-59213	.734-159	5.20	4.94	4.68	4.42
White	49-59214	.734-160	5.20	4.94	4.68	4.42
Yellow	49-59215	.734-172	5.20	4.94	4.68	4.42
Blue	49-59216	.734-184	5.20	4.94	4.68	4.42

SPNO/SPNC Momentary – 49-59 Series

10A @ 250V ac, 'Microswitch'



Round bezel: L = 23.1, Dia. = 19.8 Square bezel: L = 23.8, Bezel = 19.8 x 16



- Panel sealed to IP67
- Positive snap action
- 110 fast-on terminals with soldering facility
- Push button used with snap-on mains rated microswitch
- UL94V-0 rated body and button
- Standard 16mm cut-out

Contact rating (resistive)	10A @ 250V ac	Electrical life	100,000 ops @ 20°C
Contact resistance	25mΩ		50,000 ops @ 70°C
Dielectric strength	1KV ac, 1 minute	Mechanical life	10,000,000 ops
Insulation resistance	1000MΩ @ 500V dc	Operating temperature	-55°C to 135°C

Colour	Mfrs. List No.	Order Code	1+	25+	50+	100+
Round Bezel						
Black	49-59121	.734-196	5.36	5.10	4.83	4.56
Red	49-59122	.734-202	5.36	5.10	4.83	4.56
Green	49-59123	.734-214	5.36	5.10	4.83	4.56
Yellow	49-59125	.734-238	5.84	5.56	5.17	4.56
Blue	49-59126	.734-240	5.36	5.10	4.83	4.56
Square Bezel						
Black	49-59221	.734-251	5.36	5.10	4.83	4.56
Red	49-59222	.734-263	5.36	5.10	4.83	4.56
Green	49-59223	.734-275	5.36	5.10	4.83	4.56

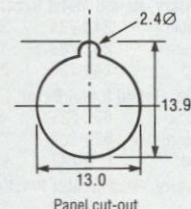
Membrane, SPNO Momentary

125mA @ 48V dc

SCHURTER



Dia = 18, H = 4.2 Pin pitch = 7.62
H = 4.2, W = 18, D = 18
Pin pitch = 7.62



- Push-fit panel mounting membrane switches with a tactile feel
- Coloured actuator snaps on to black body
- Straight pin connections allow PCB mounting or wirewrap
- 'O' ring kit available, seals switch to IP65

Actuator Colour	Mfrs. List No.	Order Code	Actuator Colour	Mfrs. List No.	Order Code
Round Bezel			Square Bezel		
Red	1241-1104-7-93	150-242	Red	1241-1100-7-93	150-247
Green	1241-1104-7-95	150-243	Green	1241-1100-7-95	150-248
Black	1241-1104-7-97	150-244	Black	1241-1100-7-97	150-249
Yellow	1241-1104-7-91	150-245	Yellow	1241-1100-7-91	150-250
Grey	1241-1104-7-96	150-246	Grey	1241-1100-7-96	150-251

'O' Ring Sealing Kit ZUB0098.9201 148-921

Contact resistance	110 to 115mΩ	Mechanical life	1,000,000 ops
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		Price Each			
Order Code		1+	100+	250+	1000+
All Switches		2.49	2.25	1.98	1.67
		Price Per Pack			
5 Per Pack		1+	100+	250+	1000+
Sealing Kit	148-921	2.55	2.32	1.98	1.68

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