

Pushbutton Switches, .120 Actuator, Straight

MATERIAL SPECIFICATIONS:

ContactsGold plate
Case MaterialPolyester
Actuator MaterialPolyester, black
Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA Max. @ 20 VDC or peak AC
Initial Contact Resistance50 Milliohms max.
Contact TimingBreak-before-make
Insulation Resistance1,000 Megohms @ 500 VDC min.
Dielectric Strength500 Volts RMS @ sea level
Actuator Travel......050" (1.27)
Life ExpectancyUp to 10,000 Cycles

FOR SEALED VERSIONS SEE PAGES D19 AND D20

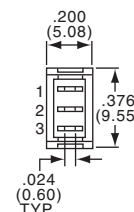
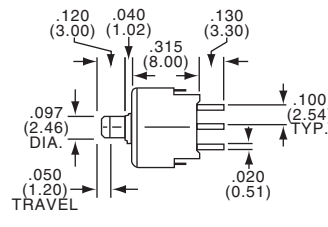
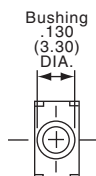
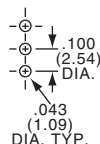
D

APA Series

SPST/SPDT



APA1BGPC



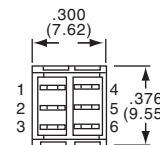
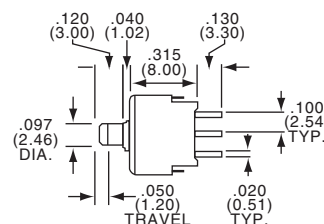
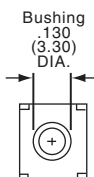
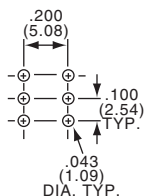
Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
1437567-2	APA1BGPC	SPST	N.C. Momentary	1-3	(—)
1437567-3	APA1CGPC	SPST	N.O. Momentary	—	(1-3)
1437567-5	APA1FGPC	SPDT	Momentary	2-3	(2-1)

Note: No center terminals on "B" or "C" action switches.

DPST/DPDT



APA2MGPC

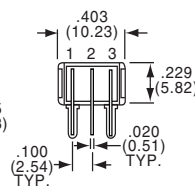
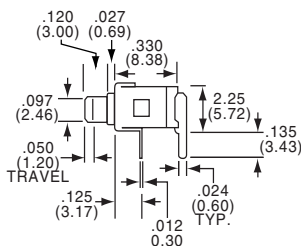
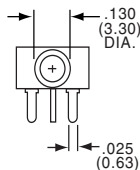
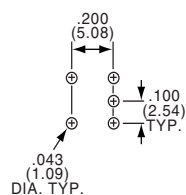


Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
—	APA2LGPC	DPST	N.C. Momentary	1-3, 4-6	(—)
1437567-7	APA2MGPC	DPST	N.O. Momentary	—	(1-3, 4-6)
1437567-9	APA2RGPC	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminals on "L" or "M" action switches.

Pushbutton Switches, .120 Actuator, Right Angle

SPST/SPDT

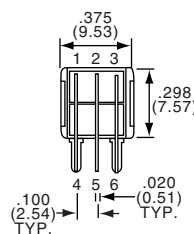
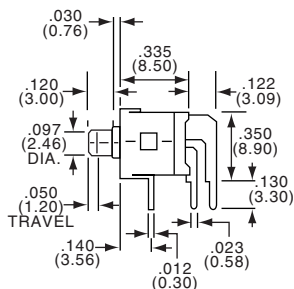
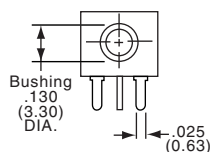
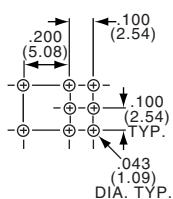


APA1FGRA

Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
—	APA1BGRA	SPST	N.C. Momentary	1-3	(—)
1437567-4	APA1CGRA	SPST	N.O. Momentary	—	(1-3)
1437567-6	APA1FGRA	SPDT	Momentary	2-3	(2-1)

Note: No center terminals on "B" or "C" action switches.

DPST/DPDT



APA2RGRA

Part Number					
Tyco Electronics	Alcoswitch	Type	Action		
1437567-8	APA2MGRA	DPST	N.O. Momentary	—	(1-3, 4-6)
1-1437567-0	APA2RGRA	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminals on "M" action switches.

Pushbutton Switches, .157 Actuator, Vertical or Right Angle

MATERIAL SPECIFICATIONS:

ContactsGold plate
Case MaterialPolyester
Actuator MaterialPolyester, black
Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

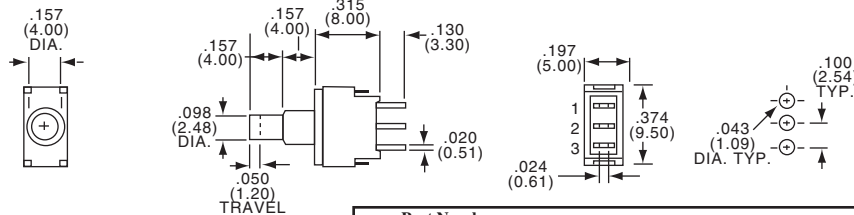
Contact Rating0.4 VA Max. @ 20 VDC or peak AC
Initial Contact Resistance50 Milliohms max.
Contact TimingBreak-before-make
Insulation Resistance1,000 Megohms @ 500 VDC min.
Dielectric Strength500 Volts RMS @ sea level
Actuator Travel.....0.050" (1.27)
Life ExpectancyUp to 10,000 Cycles

FOR SEALED VERSIONS SEE PAGES D19 AND D20

SPST/SPDT



APB1BGPC



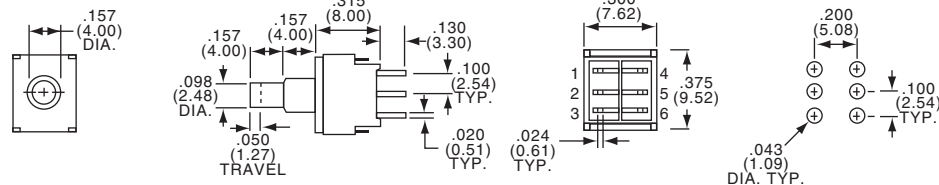
Part Number		Type	Action		
Tyco Electronics	Alcoswitch				
1-1437567-1	APB1BGPC	SPST	N.C. Momentary	1-3	(—)
1-1437567-2	APB1CGPC	SPST	N.O. Momentary	—	(1-3)
1-1437567-4	APB1FGPC	SPDT	Momentary	2-3	(2-1)

Note: No center terminal on "B" and "C" action switches.

DPST/DPDT



APB2RGPC



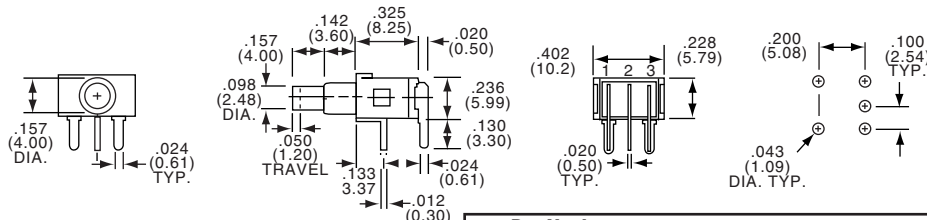
Part Number		Type	Action		
Tyco Electronics	Alcoswitch				
—	APB2LGPC	DPST	N.C. Momentary	1-3, 4-6	(—)
1-1437567-7	APB2RGPC	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminal on "L" action switches.

SPST/SPDT



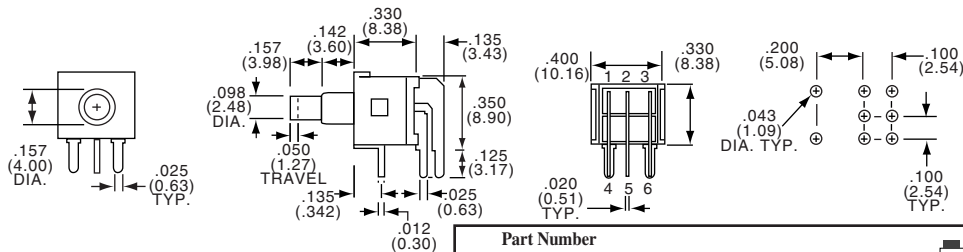
APB1FGRA



Part Number		Type	Action		
Tyco Electronics	Alcoswitch				
—	APB1BGRA	SPST	N.C. Momentary	1-3	(—)
1-1437567-3	APB1CGRA	SPST	N.O. Momentary	—	(1-3)
1-1437567-5	APB1FGRA	SPDT	Momentary	2-3	(2-1)

Note: No center terminal on "B" and "C" action switches.

DPST/DPDT



Part Number		Type	Action		
Tyco Electronics	Alcoswitch				
1-1437567-6	APB2MGRA	DPST	N.O. Momentary	—	(1-3, 4-6)
	APB2RGRA	DPDT	Momentary	2-3, 5-6	(2-1, 5-4)

Note: No center terminal on "M" action switches.

Pushbutton Switches, Process Sealed, .157 Actuator, Straight, Retention Terminal

MATERIAL SPECIFICATIONS:

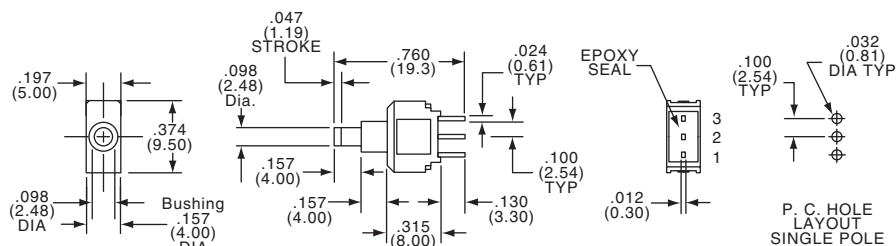
ContactsGold plated
Case MaterialPolyester
Actuator MaterialPolyester, black
Terminals/Fixed Contacts.....Copper alloy
Terminal SealEpoxy

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA Max. @ 20 VDC or peak AC
Initial Contact Resistance.....50 Milliohms max.
Insulation Resistance500 Megohms @ 250 VDC min.
Dielectric Strength500 Volts RMS @ sea level
Actuator Travel.....0.047" (1.19)
Life ExpectancyUp to 10,000 Cycles



SPDT

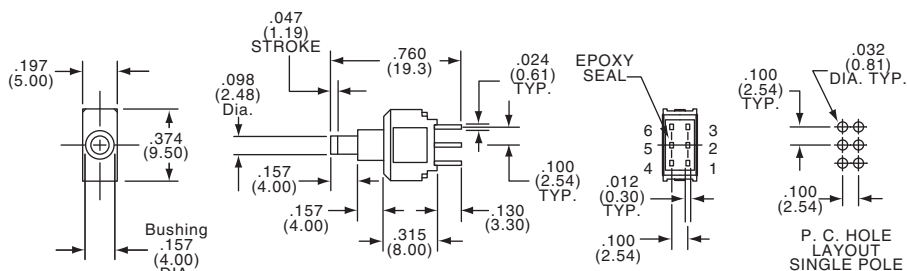


APBE1FGPC

Part Number					
Tyco Electronics	Alcoswitch	Type	On	(On)	Contact Type
1-1437567-8	APBE1FGPC	SPDT	On	(On)	Gold
Terminals Connected:			2-3	(2-1)	
(On) indicates momentary position.					

DPDT

Extra compact double pole saves PCB real estate.



APBE2RGPC

Part Number					
Tyco Electronics	Alcoswitch	Type	On	(On)	Contact Type
2-1437567-0	APBE2RGPC	DPDT	On	(On)	Gold
Terminals Connected:			2-3 & 5-6	(2-1 & 5-4)	
(On) indicates momentary position.					

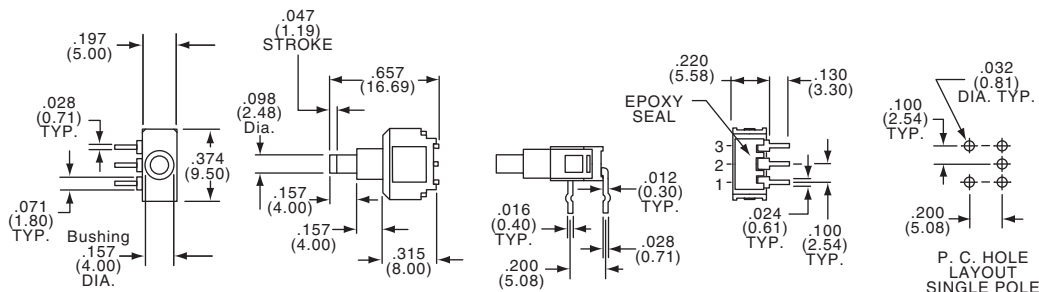
Pushbutton Switches, Process Sealed, .157 Actuator, Retention Terminal, Right Angle

SEE PAGE D19 FOR PRODUCT SPECIFICATIONS.

SPDT



APBE1FGRA



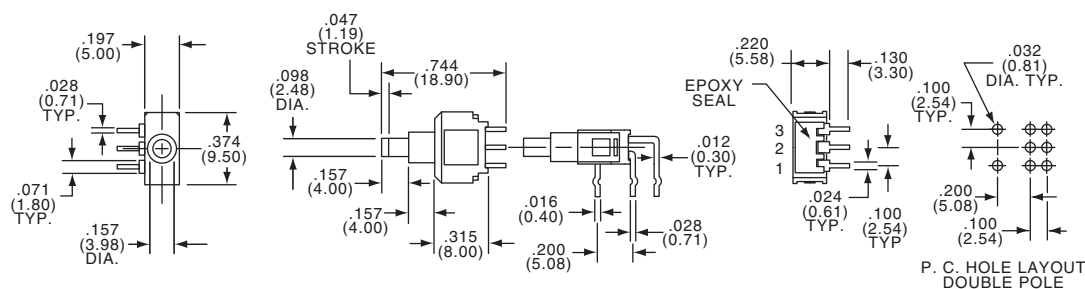
Part Number					
Tyco Electronics	Alcoswitch	Type			Contact Type
1-1437567-9	APBE1FGRA	SPDT	On	(On)	Gold
Terminals Connected: 2-3 (2-1)					
(On) indicates momentary position.					

DPDT

Extra compact double pole
saves PCB real estate.



APBE2RGRA



Part Number					
Tyco Electronics	Alcoswitch	Type			Contact Type
2-1437567-1	APBE2RGRA	DPDT	On	(On)	Gold
Terminals Connected: 2-3 & 5-6 (2-1 & 5-4)					
(On) indicates momentary position.					

D20

Catalog 1308390
Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Pushbutton Switches, Sub-Miniature, Panel Mount

MPA3 Series

MATERIAL SPECIFICATIONS:

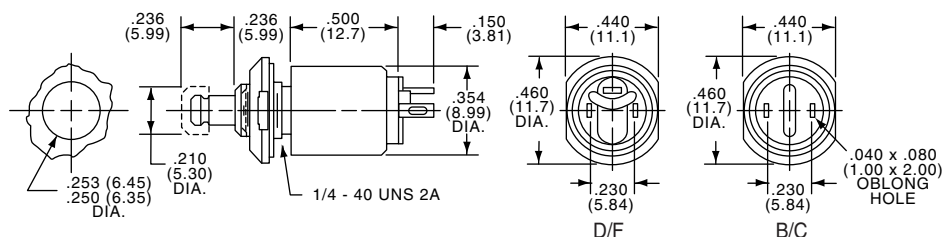
ContactsSilver clad
Case MaterialThermoset
Actuator MaterialPolyamide
TerminalsSilver plate

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....-4°F to +158°F (-20°C to +70°C)
Storage Temperature.....-40°F to +176°F (-40°C to +80°C)
Solder Heat ResistanceSee page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating3 A @ 125 VAC
Initial Contact Resistance20 Milliohms max.
Contact TimingBreak-before-make
Insulation Resistance1,000 Megohms min.
Dielectric Strength1,000 Volts RMS @ sea level
Actuation Force10 oz. SPST, 16 oz. SPDT average
Actuator Travel.....100" (2.54)
Life ExpectancyUp to 10,000 Cycles
Note: Hardware included with switches



SPST/SPDT



MPA103C

Part Number		Type	Act. Code	P. M6	Action	Contact Rating
Tyco Electronics	Alcoswitch					
2-1437567-4	MPA103B	SPST	14		N. C. Momentary	3 Amps
2-1437567-5	MPA103C	SPST	13		N. O. Momentary	3 Amps
2-1437567-6	MPA103D	SPDT	16		Push on/push off- (tactile)	3 Amps
2-1437567-7	MPA103F	SPDT	15		Momentary - (tactile)	3 Amps

Black Cap supplied. Other colors available, order separately.
(See Cap C5 and C8 on Page D32.)

MPB Series

Pushbutton Switches, Miniature, Over-Travel

MATERIAL SPECIFICATIONS:

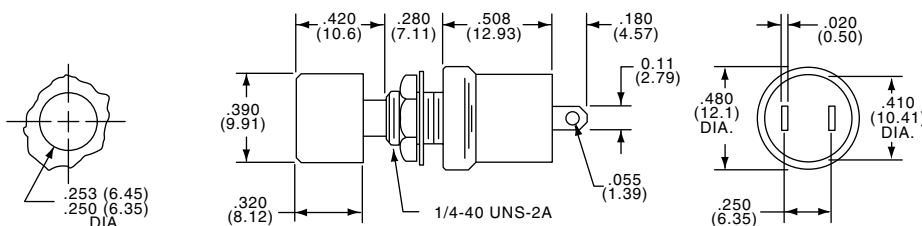
ContactsSilver plate
Case MaterialThermoset
Actuator MaterialPolyamide
TerminalsSilver plate

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature.....+14°F to +140°F (-10°C to +60°C)
Storage Temperature.....+5°F to +158°F (-15°C to +70°C)
Solder Heat ResistanceSee page M3-4

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating3 A @ 125 VAC
Initial Contact Resistance20 Milliohms max.
Insulation Resistance1,000 Megohms min.
Dielectric Strength1,000 Volts RMS @ sea level
Actuator Travel.....100" (2.54) Overtravel .059" (1.5mm)
Life Expectancy20,000 Cycles
Note: Hardware included with switches



SPST



MPB103B

Part Number		Type	Act. Code	P. M6	Action	Actuator Color
Tyco Electronics	Alcoswitch					
3-1437567-9	MPB103B	SPST	14		N.C. Momentary	Black
4-1437567-0	MPB103C	SPST	13		N.O. Momentary	Red