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1825096-4 Product Details





Pushbutton Switches

Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Switch
- Tactile
- Single Pole Single Throw Configuration (Pole-Throw)
- Contact Rating = 0.4VA
- Operating Function = Off [On]

View all Features

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Documentation & Additional Information Product Drawings: Related Products: • PUSHBUTTON SWITCH, TPA SERIES (PDF, English) Tooling Catalog Pages/Data Sheets: • SWITCHES_CORE_PROGRAM_CATALOG (PDF, English) **Product Specifications:** None Available **Application Specifications:** None Available **Instruction Sheets:** None Available CAD Files: (CAD Format & Compression Information) • 2D Drawing (DXF, Version A) • 3D Model (IGES, Version A) • 3D Model (STEP, Version A)

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- Product Type = Switch
- Tactile = Yes
- Series = TPA
- Mount Angle = Right Angle
- Termination Type = Printed Circuit
- Actuator Style = Round

Electrical Characteristics:

• Contact Rating = 0.4VA

Dimensions:

• Actuator Length (mm [in]) = 3.84 [0.151]

Body Features:

- Mount Style = Through-Hole
- Actuator Profile = Extended
- Actuator Color = Black

Configuration Features:

List all Documents

- Configuration (Pole-Throw) = Single Pole Single Throw
- Operating Function = Off [On]
- Ganged = No
- ESD Grounding Terminal = Without
- Number of Actuators = Single
- Illuminated = No
- Dust Proof = No
- Support Bracket = Without
- Snap Action = Without

Industry Standards:

- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C

• Case Material = Thermoplastic (LCP)

Actuator Material = Nylon

Contact Features:

• Contact Plating = Gold

• Contact Base Material = Copper Alloy

Housing Features:

• Process Sealed = No

• Low Profile = No

• RoHS/ELV Compliance History = Always was RoHS compliant

Conditions for Usage:

• Temperature Rating = Standard

Operation/Application:
• Actuator Force (g [oz]) = 50.00 - 400.00 [1.770 -14.120]

Packaging Features:

• Packaging Method = Loose Piece/Bulk

Other:

• Brand = Alcoswitch

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REVISIONS DESCRIPTION 11MAR11 RK HMR A1 REVISED PER ECO-11-004917

PUSHBUTTON SWITCH, TPA SERIES

SCALE 4:1 SHEET 1 OF 4 REV A1

SIZE CAGE CODE DRAWING NO

1 00779 **C-**1825096

Component name	Base material	Finish				
Case	LCP, black, UL94 V-0					
Terminal, wire lug (gold)	Brass	Gold over nickel				
Terminal, PC & RA (gold)	Brass	Gold over nickel in contact area, Tin over nickel in solder area				
Terminal, PC & wire lug (silver)	Silver clad copper	Silver over nickel				
Contact (gold)	Copper alloy or brass	Gold over nickel				
Contact (silver)	Silver clad copper or copper	Silver over nickel				
Frame	Steel	Tin over copper				
Spring	Music wire					
Plunger Button	Nylon 6/6, black, red or blue, UL94 HB					
Guide, CC & FF switches only	Nylon 6/6, white					

Specifications						
Rating	Gold: .4VA max. @ 20VDC or peak AC resistive					
	Silver: 1 A @ 125VAC or 28 VDC resistive					
Initial termination resistance	20 milliohms max.					
Insulation resistance	1,000 Megohms min @ 500 VDC					
Dielectric strength	1,000 volts RMS at sea lever					
Timing	Break before make					
Plunger travel	.030					
Actuation force	50 to 400 grams					
Life expectancy	.4 VA, 1 pole: 100,000					
	.4 VA, 2 poles: 80,000					
	1 A, 1 pole: 60,000					
	1 A, 2 poles: 50,000					
Operating temperature	-30° C to +65° C					
Storage temperature	-30° C to +65° C					
Terminal seal	Single pole: epoxy					
	Double pole: epoxy optional					

NOTES:

1. TERMINAL NUMBERS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON SWITCHES

2. ALL MATERIALS AND FINISHES COMPLY WITH EU DIRECTIVE 2002/95/EC OF 27JAN2003 (ROHS).

CENTER TERMINAL PRESENT ON DOUBLE THROW SWITCHES ONLY.

Model	Poles	Rating	Function	Plating	Terminations	Button color
TPA						
	1	1 = Gold .4VA	C = SPST momentary	G = Gold	Blank = Wire lug	0 = Black
	2 (1+1)	3 = Silver 1 Amp	F = SPDT momentary	Blank = Silver	PC = printed circuit	2 = Red
			M = DPST momentary		RA = right angle	6 = Blue
			R = DPDT momentary			
es:						

						Function		Connected Terminals		
P/N	Alco P/N	Poles	Throws	Plating	Terminals	Button Color	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6
1825096-1	TPA11CGPC004	1	1	Gold	PC	Black	Off	Mom	Off	1-3
1825096-2	TPA11CGPC204	1	1	Gold	PC	Red	Off	Mom	Off	1-3
1825096-3	TPA11CGPC604	1	1	Gold	PC	Blue	Off	Mom	Off	1-3
1825096-4	TPA11CGRA004	1	1	Gold	Right Angle	Black	Off	Mom	Off	1-3
1825096-5	TPA11CGRA204	1	1	Gold	Right Angle	Red	Off	Mom	Off	1-3
1825096-6	TPA11CGRA604	1	1	Gold	Right Angle	Blue	Off	Mom	Off	1-3
1825096-7	TPA11FGPC004	1	2	Gold	PC	Black	On	Mom	1-2	2-3
1825096-8	TPA11FGPC204	1	2	Gold	PC	Red	On	Mom	1-2	2-3
1825096-9	TPA11FGPC604	1	2	Gold	PC	Blue	On	Mom	1-2	2-3
1-1825096-0	TPA11FGRA004	1	2	Gold	Right Angle	Black	On	Mom	1-2	2-3
1-1825096-1	TPA11FGRA204	1	2	Gold	Right Angle	Red	On	Mom	1-2	2-3
1-1825096-2	TPA11FGRA604	1	2	Gold	Right Angle	Blue	On	Mom	1-2	2-3
1-1825096-3	TPA21CCGPC004	2 (1+1)	1	Gold	PC	Black	Off	Mom	Off	1-3, 4-6
1-1825096-4	TPA21CCGRA004	2 (1+1)	1	Gold	Right Angle	Black	Off	Mom	Off	1-3, 4-6
1-1825096-5	TPA21FFGRA204	2 (1+1)	2	Gold	Right Angle	Red	On	Mom	1-2, 4-5	2-3, 5-6
1-1825096-6	TPA21MGRA004	2	1	Gold	Right Angle	Black	Off	Mom	Off	1-3, 4-6
					THIS DRAWING IS A	A CONTROLLED I	DOCUMENT. DWN M.BINNER CHK M.ZITTO	01SEP05 21JUL05	ETE TE	Connectivity

0 PLC ± -1 PLC ± -2 PLC ± -3 PLC ± .010 4 PLC ± -ANGLES ± -

APPLICATION SPEC

CUSTOMER DRAWING





