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Product Range



Rocker & Paddle Switches

- **Rocker & Paddle Switches for Panel Mounting:**
  F, TRD and Gemini Series
- **Rocker & Paddle Switches for PCB Mounting:**
  Gemini Series

Main features:

- Sealed or unsealed versions
- Various switch functions
- Gold or silver contacts
- LED illumination available (also bi-color)
- Multiple rocker/raddle colors available
- Beveled frames available



F Series, Power Rocker, Panel Mounting, 6A . . . . . .page F2



TRD Series, Rocker/Paddle . . . . . .page F4



Gemini A Series Rocker/Paddle . . . . . .page F7



Gemini AE Series Rocker/Paddle . . . . . .page F17

Catalogue No. 8-1773450-9
Issued 09/2008

Dimensions are in mm and inches and are shown for reference purposes only.

Specifications subject to change.

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F Series, Rocker/Paddle, Panel Mounting, 6A

Features

- **Wide range switch functions available**
- **Terminals are gold-flashed to prevent oxidation and for ease of soldering**



Typical performance characteristics

Number of poles . . . . . 1 to 4 pole
Switch functions . . . . . ON-ON, ON-(ON), ON-OFF-ON, ON-ON-ON, ON-OFF-(ON), (ON)-OFF-(ON)
Contact rating . . . . . 6 A @250 VAC, 6 A @125 VAC; gold contact: 0,4 VA max 20 V AC/DC
Electrical life . . . . . 25,000 to 50,000 cycles
Mechanical life . . . . . 50,000 to 100,000 cycles
Contact resistance . . . . . max 10 mOhm
Insulation resistance . . . . . min 1,000 MOhm
Dielectric strength . . . . . 1,000 VAC for 1 min
Actuation force . . . . . max 19,6 N
Panel cut-out . . . . . Ø 6,2 mm
Standards and specs . . . . . UL, CSA

Environmental specification

Operating temperature . . . . . -20 to +70°C
Storage temperature . . . . . -20 to +70°C
Vibration resistance . . . . . 1,5 mm 10-55 Hz
Shock resistance . . . . . 50 g for 11±1 msec
Terminal strength . . . . . 24,5 N

Material specifications

Contacts . . . . . brass silver alloy finished
Toggle . . . . . brass chromium plated
Terminals . . . . . brass plate
Case . . . . . phenol resin
Cover . . . . . steel zinc plated
Seal . . . . . rubber seal, insert molded rubber
RoHS compliance . . . . . compliant

Product key

Typical product key: **F L N 1 9 red 04**

Type
F F Series power rocker switch

Model
L snap-in lever & rocker

Switch function & poles
1 pole
D ON-ON
2 pole
N ON-ON

Actuator
1 long rocker
2 small rocker

Terminal type
9 leadwire hooking type

Contact material
blank silver
G gold

Rocker color
red red **black** black **white** white

Material
04 RoHS compliant

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F Series, Rocker/Paddle, Panel Mounting, 6A (Continued)

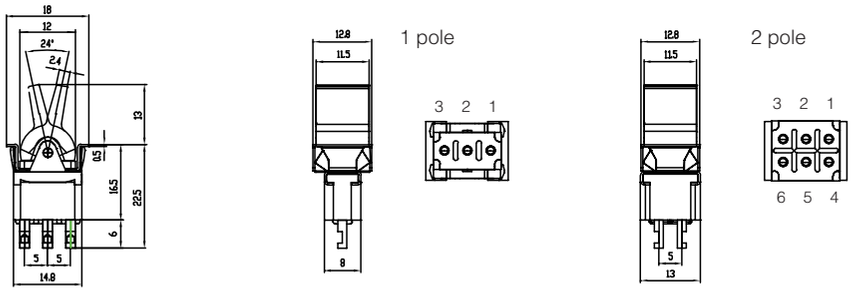
Function

Function	Poles				
D	1	On	On	1-2	2-3
N	2	On	On	1-2, 4-5	2-3, 5-6

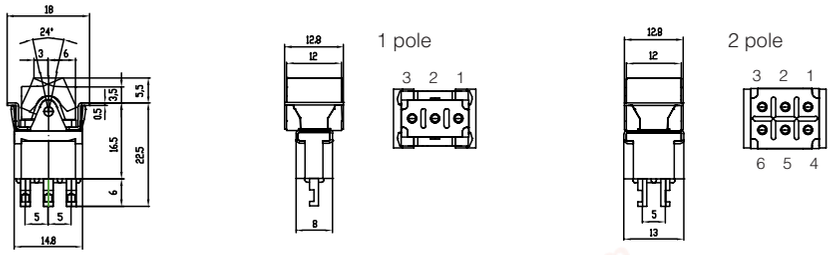
Off indicates a mechanical position with no electrical connection
(On) indicates momentary connection
None indicates no mechanical position

Actuator

Code 1 long rocker

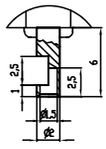


Code 2 small rocker



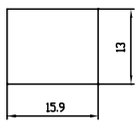
Terminal

Leadwire hooking type



Mounting

Panel Cutout
thickness 1 to 2.5mm



Product key	Poles	Switch func.	Actuator	Act. Color	Terminal	Contacts	Material	Part Number
FLD19black04	1 pole	On - On	long rocker	black	leadwire	silver	RoHS	3-6437630-2
FLD29black04			small rocker		hooking		compliant	2-6437630-9
FLN19black04	2 poles		long rocker	black	type			3-6437630-7
FLN19red04				red				2-6437630-7
FLN19white04				white				2-6437630-6
FLN29black04			small rocker	black				2-6437630-5
FLN29red04				red				4-6437630-7
FLN29white04				white				2-6437630-3

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TRD Series, Rocker/Paddle

Features

- **Wire lug, quick connect, or PC terminals**
- **LED both single and bi-colored available**
- **Entire series epoxy sealed terminals**



Typical performance characteristics

Contact configuration . . . . . SPST, DPDT
Contact timing . . . . . break-before-make
Contact rating max . . . . . 3 A @ 125 VAC with silver Option 3, 0.4 VA @ 20 VDC gold option 1
Electrical life . . . . . 2 Pos.: 20,000 cycles @ full rated 3 A load
80,000 cycles @ 0.4 VA
3 Pos.: 10,000 cycles @ full rated 3 A load
60,000 cycles @ 0.4 VA
Initial contact resistance . . . . . max.20 mOhms
Insulation resistance . . . . . 1,000 MOhms min. @ 500 VDC
Dielectric strength . . . . . 500 Volts rms @ sea level

Environmental specification

Operating temperature . . . . . -20°C to +80°C
Storage temperature . . . . . -45°C to +93°C
Solder heat resistance
wave solder . . . . . capable to 265°C
hand solder . . . . . max. 316°C for less than 5 seconds with switch in the closed position
Seal . . . . . epoxy sealed terminals

Material specifications

Contacts movable . . . . . copper alloy w/silver inlay or gold plated
Actuator . . . . . brass nickel plated
Terminals/fixed contacts . . . . . copper alloy w/silver inlay or gold plated
Housing/beveled frame . . . . . polyamide, black matte finish
Terminal seal . . . . . epoxy
RoHS Directive 2002/95/EC . . . . . compliant

Product key

Typical product key: **TRD 1 3 D 1 0 WL 04**

Type
TRD Rocker/Paddle Switch

Number of poles
1 single pole
2 double pole

Rating
1 0.4 VA @20VDC (Gold)
3 3A @ 125VAC or 28VDC (Silver)

Function

single pole		double pole	
D	on-on	**N**	on-on
E	on-off-on	**P**	on-off-on
F	on-(on)	**S**	(on)-off-(on)
G	(on)-off-(on)		

Actuator
1 rocker
2 paddle

Actuator color
0 black
2 red

Terminals
WL wire lug
QC quick connect

Mount
blank 11.91 mm (15/32")

LED illumintion
blank none
LR LED integral w/rocker (TRD1 only)

LED color
2 red
5 green
25 bi-color red/green

Material
blank RoHS compliant
04 RoHS compliant

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Specifications subject to change.

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TRD Series, Rocker/Paddle (Continued)

Function

Codes 1, 2 1 and 2 pole



1 Single pole 1-2-3 1-2-3 1-2-3

Function

D	On	None	On
E	On	Off	On
F	On	None	(On)
G	(On)	Off	(On)
Terminals connected	2 - 3	- - -	1 - 2



2 Double pole 1-2-3 1-2-3 1-2-3

Function

N	On	None	On
P	On	Off	On
S	(On)	Off	(On)
Terminals connected	2 - 3	- - -	1 - 2
	5 - 6	- - -	4 - 5

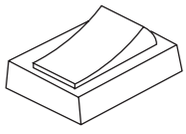
Off mechanical position, no electrical connection
(On) momentary mechanical position and electrical connection
None no mechanical position

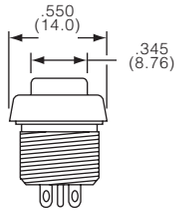
Actuator

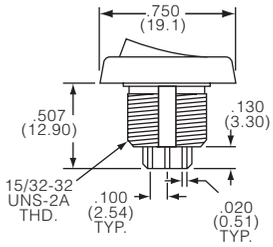
1 rocker



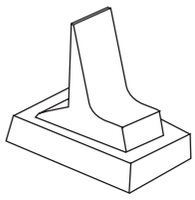
TRD21N10WL

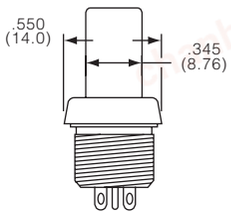


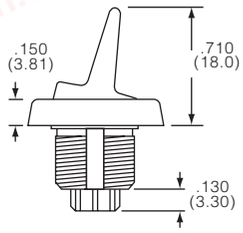




2 paddle



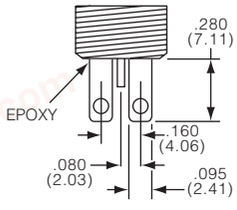




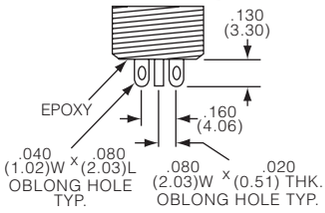
Terminal

QC, WL

QC, quick connect



WL, wire lug



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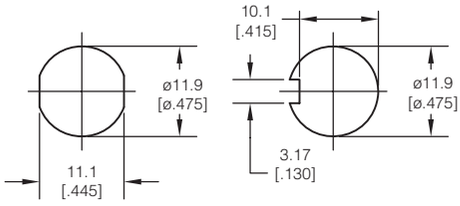
Specifications subject to change.

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TRD Series, Rocker/Paddle (Continued)

Mount

blank **15/32" round hole**



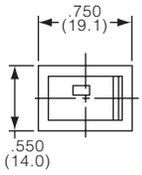
Standard TRD bushing will mount in any hole shown.
Recommended panel thickness: .030" to .250".
One hex nut, one internal tooth lock washer supplied

LED

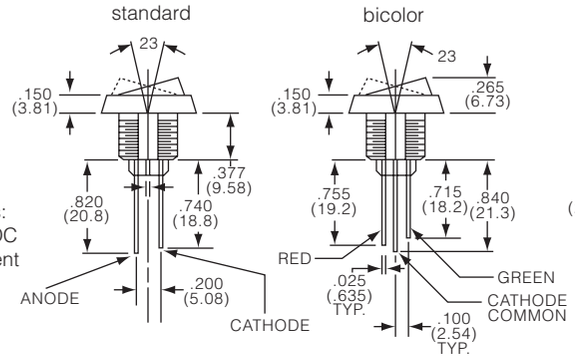
LR **integral w/rocker (TRD1 only)**



TRD11D10WLLR



LED specifications:
max voltage 2.8VDC
max. forward current
red 20mA,
green 25mA,
red/green 40mA



Product key	Poles	Rating	Function	Actuator	Act. color	Terminals	LED	LED color	Material	Part Number
TRD11D10WL	single	0.4 VA	on-on	rocker	black	wire	none	none	RoHS	4-1437595-1
TRD11D10WLLR504	pole	@ 20VDC				lug	integral	green	compliant	1825424-1
TRD11F10QCLR204		gold	on-(on)			quick c.		red		1825425-1
TRD11F10WL						wire	none	none		5-1437595-2
TRD11G10WL			(on)-off-(on)			lug				5-1437595-6
TRD13D10QC04		3 A	on-on			quick c.				1825422-1
TRD13D10WL04		@ 125VAC				wire				1825420-1
TRD13D10WLLR204		or 28VDC				lug	integral	red		1825426-1
TRD13D10WLLR2504		silver						bi-color		1825426-2
TRD13D10WLLR504								green		1825426-3
TRD13E10WLLR204			on-off-on					red		1825426-4
TRD13F10QC04			on-(on)			quick	none	none		1825422-2
TRD13F10QCLR204						connect	integral	red		1825427-1
TRD13F10WL04						wire	none	none		1825420-2
TRD13G10WL04			(on)-off-(on)			lug				1825420-3
TRD13G10WLLR204							integral	red		1825426-5
TRD21N10WL	double	0.4 VA	on-on				none	none		1437596-3
TRD21S10WL		gold	(on)-off-(on)							1-1437596-4
TRD23N10QC04		3 A	on-on			quick c.				1825423-1
TRD23N10WL04		@ 125VAC				wire				1825421-1
TRD23P10WL04		or 28VDC	on-off-on			lug				1825421-2
TRD23S10WL04		silver	(on)-off-(on)							1825421-3

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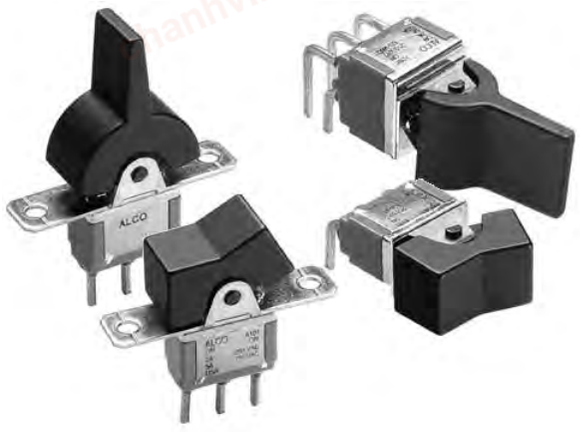
Specifications subject to change.

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Gemini A Series Rocker/Paddle

Features

- **Multiple actuator colors available**
- **G and Q contacts UL® recognation**



Typical performance characteristics

Contact configuration . . . . . SPST, DPST
Contact timing . . . . . break before make
Contact rating max. . . . . B contacts: 0.4 VA @ 20 V max. AC or DC . . . . . G contacts: 0.4 VA @ 20 V max. AC or DC or . . . . . 5 A @ 120 VAC or 28 VDC (resistive) or . . . . . 2 A @ 250 VAC (resistive) . . . . . Q contacts: 5 A @ 120 VAC or 28 VDC (resistive) or . . . . . 2 A @250 VAC (resistive)
Electrical life. . . . . 6,000 cycles at rated load
Mechanical life. . . . . 40,000 cycles
Contact resistance. . . . . max. 10 mOhms initial @ 2-4 VDC, 100 mA
Insulation resistance . . . . . min. 1,000 MOhms
Dielectric strength. . . . . 1,000 Vrms at sea level
Standards and specs. . . . . UL® recognition on G & Q contacts

Environmental specification

Operating temperature . . . . . -30°C to 85°C
Storage temperature . . . . . -40°C to 85°C
Solder heat resistance . . . . . wave solder capable to 265°C

Material specifications

Contacts & terminals. . . . . B contacts: copper alloy w/ gold over nickel . . . . . G contacts: copper alloy w/ silver . . . . . Q contacts: copper alloy w/ gold over silver
Actuator . . . . . phenolic
Base . . . . . DAP® UL94 V-O
Frame. . . . . stainless steel
Seal. . . . . epoxy UL94 V-1
RoHS Directive 2002/95/EC . . . . . compliant

Product key

Typical product key: **A 1 01 J1 A Q 0 04**

Type
- **A** Rocker/Paddle Switche

Number of poles
- **1** single pole
- **2** double pole

Function

01	On-On	**07**	On-Off-(On)	**13**	On-On-(On)
03	On-Off-On	**08**	On-(On)		
05	(On)-Off-(On)	**11**	On-On-On		

Actuator

Rocker	Paddle
J1 small	**J2** small
J3 large	**J4** large
J50 snap-in	**J60** snap-in
J51 snap-in w/beveled frame	**J61** snap-in w/beveled frame
J52 snap-in w/beveled frame and LED	**J62** snap-in w/beveled frame and LED

Terminals

A	right angle	**V3**	vertical with support bracket .620(15.75)
AV2	vertical R/A	**Z**	wire lug
C	P.C.	**Z3**	quick connect

Contacts

B	gold	**G**	gold over silver	**Q**	silver

Actuator color

0	black (std.)	**3**	orange	**6**	blue
1	brown	**4**	yellow	**8**	gray
2	red	**5**	green	**9**	white

Bevelled frame color

0	black (std.)	**3**	orange	**6**	blue
1	brown	**4**	yellow	**8**	gray
2	red	**5**	green	**9**	white

Material
- **04** RoHS compliant

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Gemini A Series Rocker/Paddle (Continued)

Function

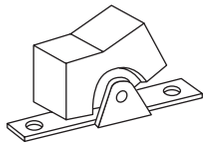
Codes 01, 03, 05, 07, 08, 11 and 13

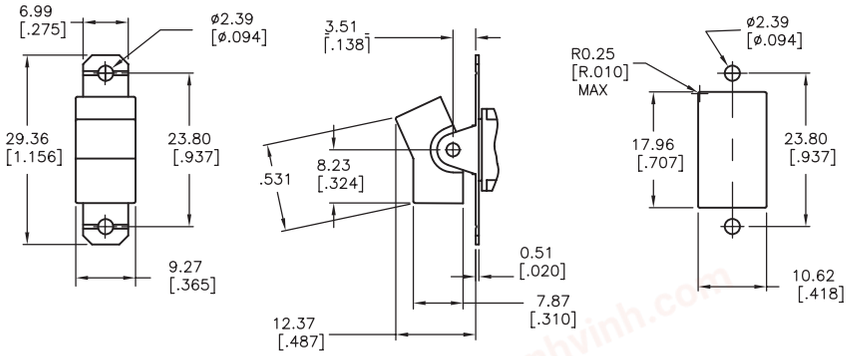
Code	Positions			
01 08	2 positions	On On	None None	On (On)
	Term. conn.	2 - 3	- - -	1 - 2
03 05 07	3 positions	On (On) On	Off Off Off	On (On) (On)
	Terminals connected	2 - 3 5 - 6	- - - - - -	1 - 2 4 - 5
11 13	3 positions	On On	On On	On (On)
	Terminals connected	2 - 3 5 - 6	1 - 2 5 - 6	1 - 2 4 - 5

Off — mechanical position, no electrical connection
(On) — momentary mechanical position and electrical connection
None — no mechanical position

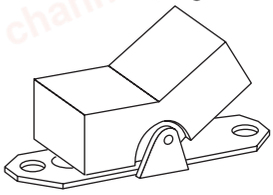
Actuator

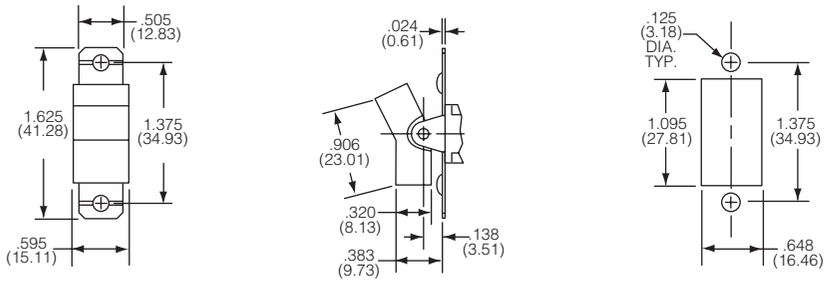
J1 rocker, small



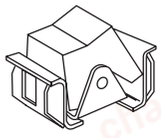


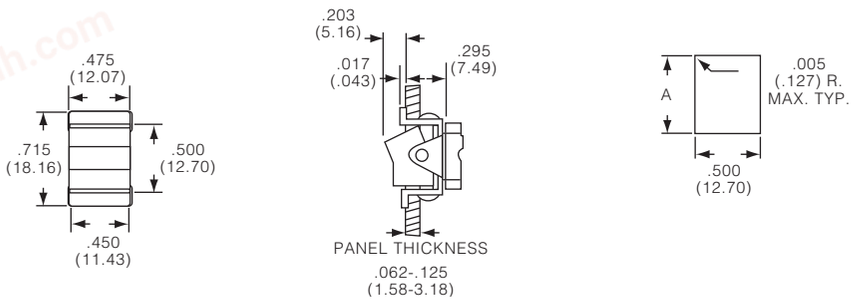
J3 rocker, large





J50 rocker, snap-in

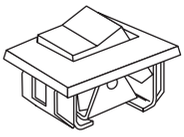


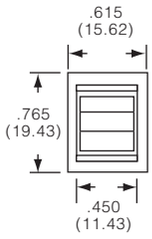


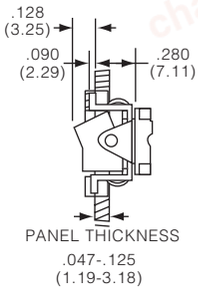
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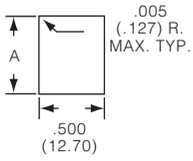
Gemini A Series Rocker/Paddle (Continued)

J51 rocker, snap-in w/beveled frame

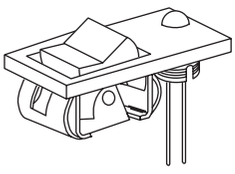


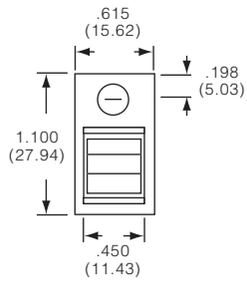


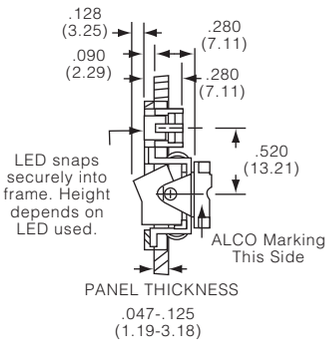


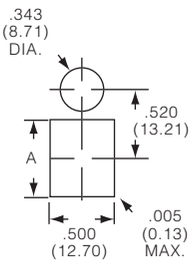


J52 rocker, ssnap-in, w/beveled frame and LED



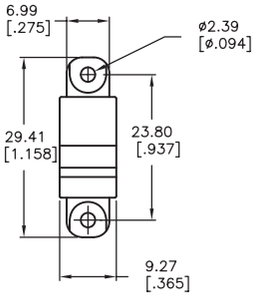


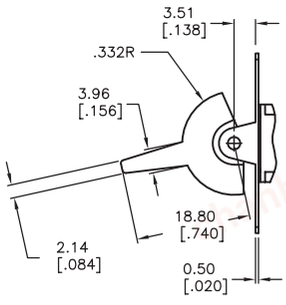


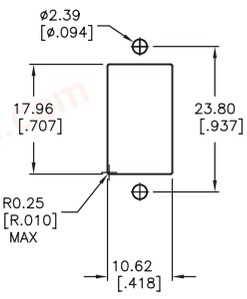


J2 paddle, small

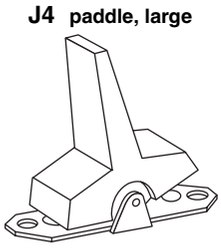


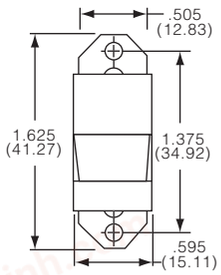


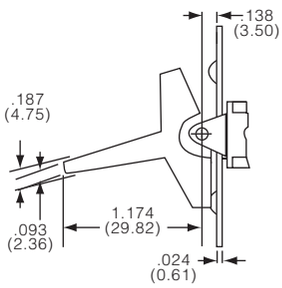


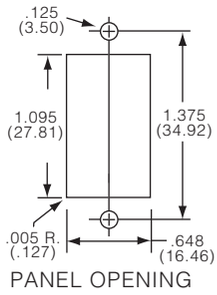


J4 paddle, large









Catalogue No. 8-1773450-9
Issued 09/2008

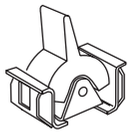
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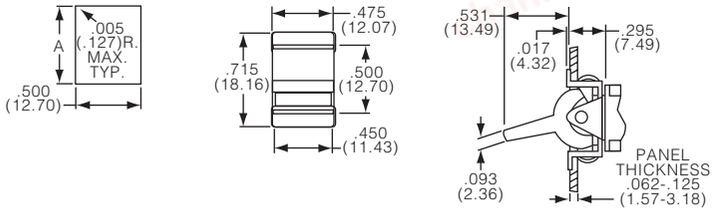
Specifications subject to change.

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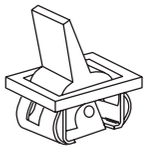
Gemini A Series Rocker/Paddle (Continued)

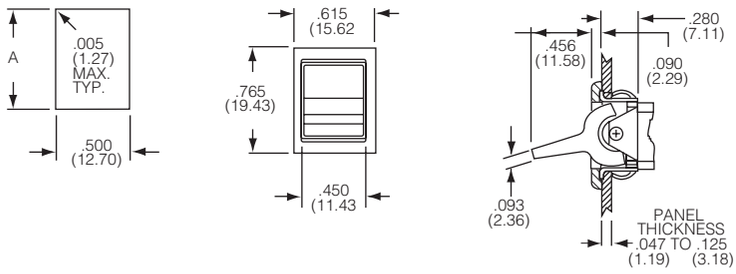
J60 paddle, snap-in



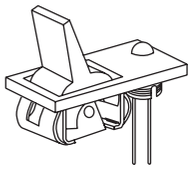


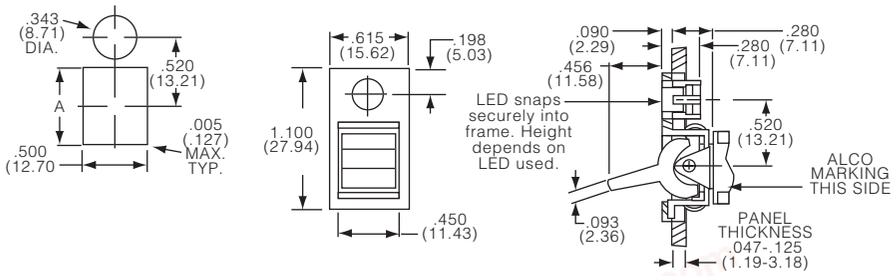
J61 paddle, snap-in w/beveled frame





J62 paddle, ssnap-in, w/beveled frame and LED





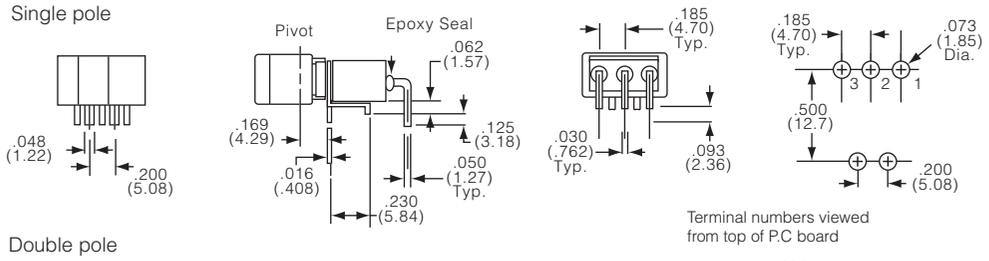
Terminals

A right angle, rocker



A101J1AQ0

Single pole

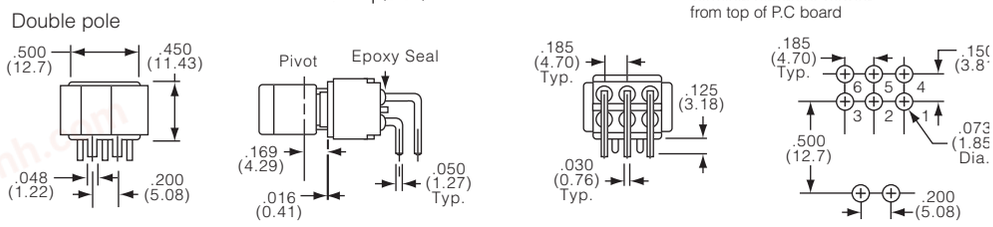


Terminal numbers viewed from top of P.C board



A201J1AQ0

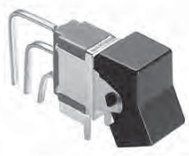
Double pole



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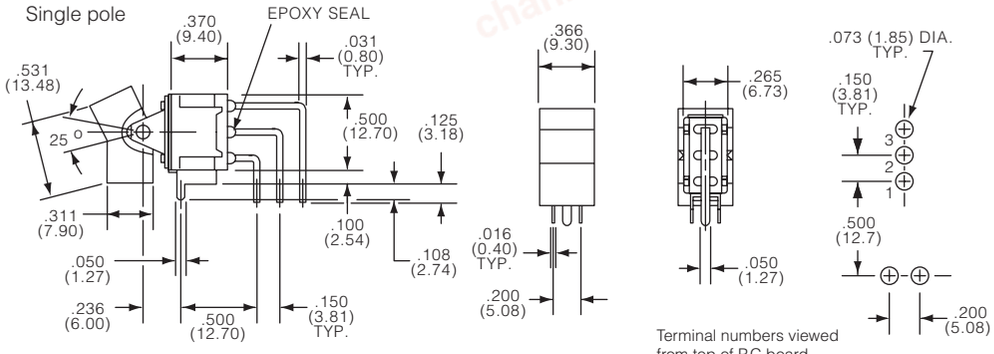
Gemini A Series Rocker/Paddle (Continued)

AV2 vertical, ight angle, rocker



A101J1AV2Q0

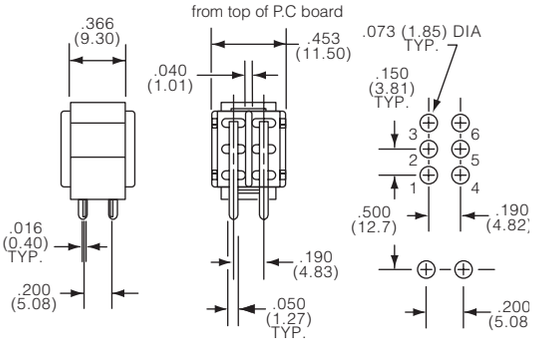
Single pole



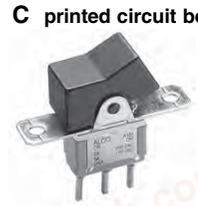


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Double pole

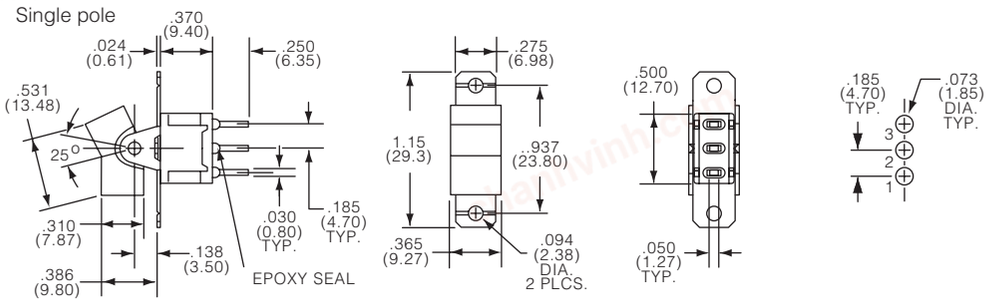


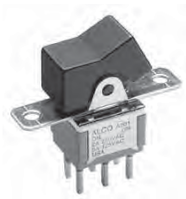
C printed circuit board, rocker



A101J1CQ0

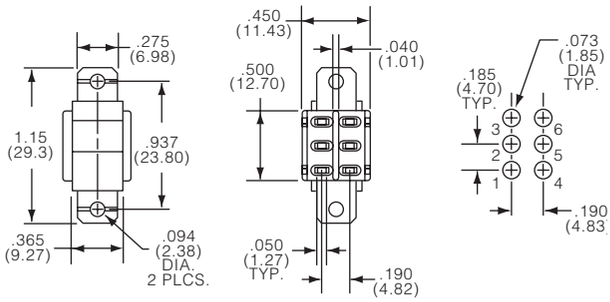
Single pole





A201J1CQ0

Double pole



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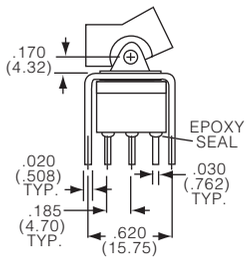
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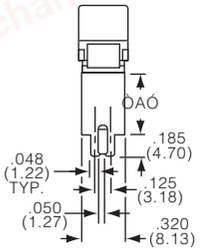
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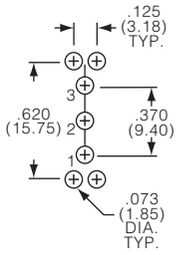
Gemini A Series Rocker/Paddle (Continued)

V3 vertical with support bracket, rocker

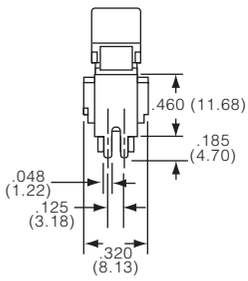
Single pole

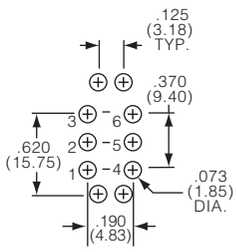






Double pole



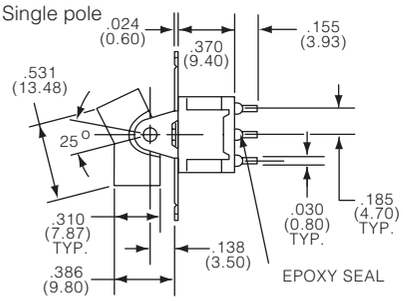


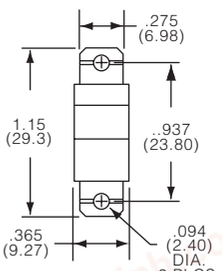
Z wire lug, rocker

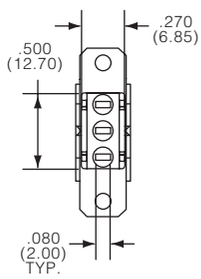


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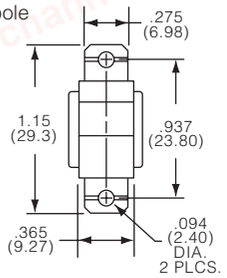
Single pole

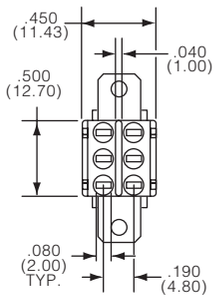






Double pole

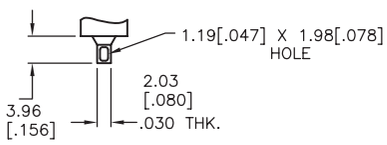






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Terminal



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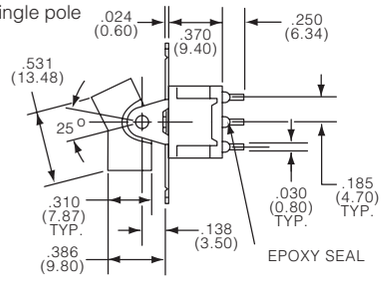
Gemini A Series Rocker/Paddle (Continued)

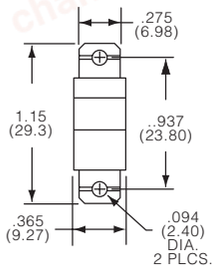
Z3 quick connect, rocker

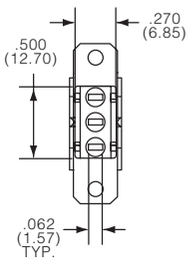


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Single pole



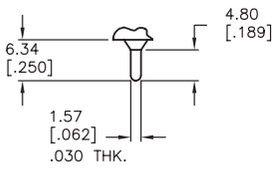




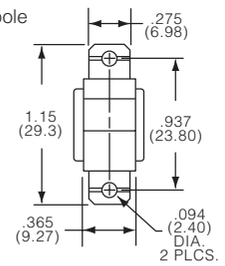


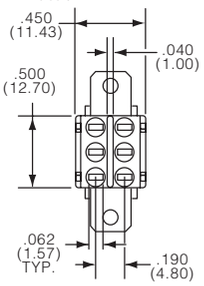
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Terminal



Double pole



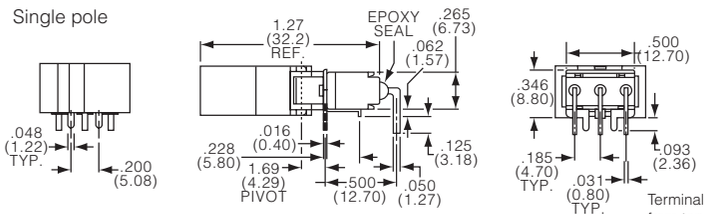


A right angle, paddle

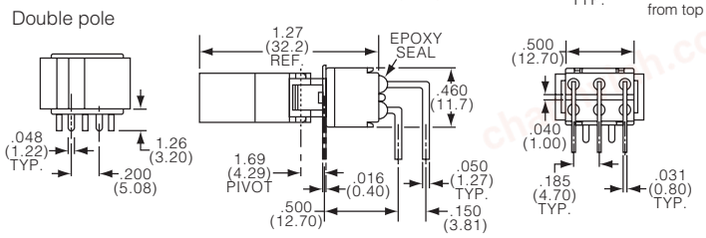


A201J2AQ0

Single pole



Double pole

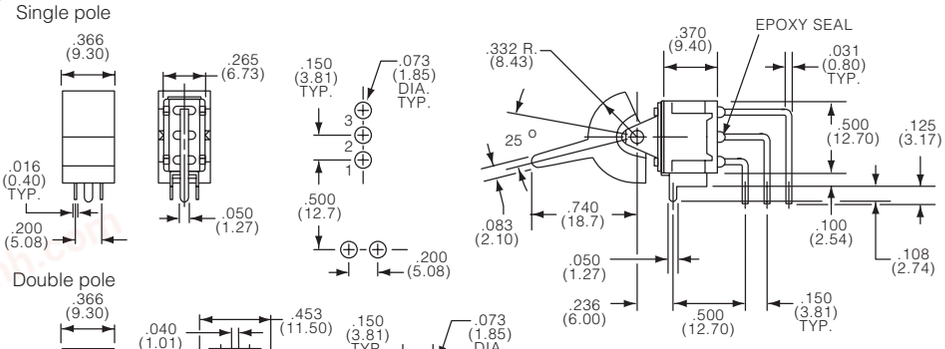


AV2 vertical, ight angle, paddle

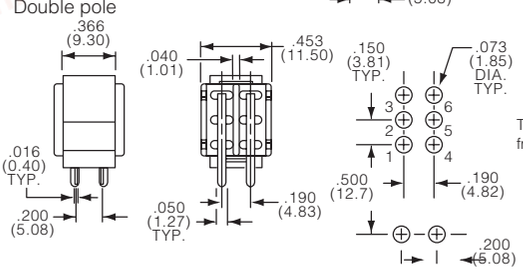


A105J2AV2Q0

Single pole



Double pole



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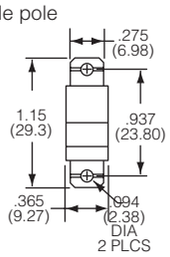
Gemini A Series Rocker/Paddle (Continued)

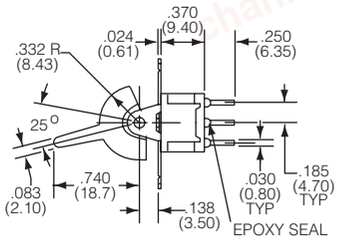
C printed circuit board, paddle

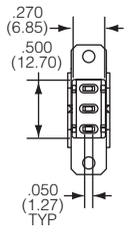


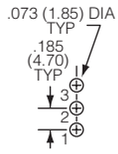
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Single pole





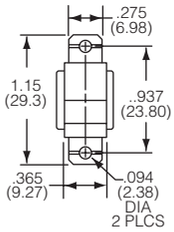


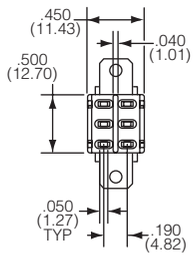


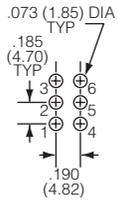


A205J2CQ0

Double pole







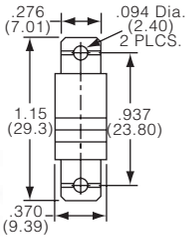
Z wire lug, paddle

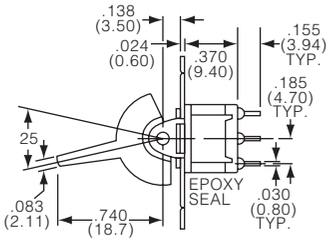


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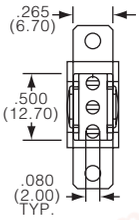


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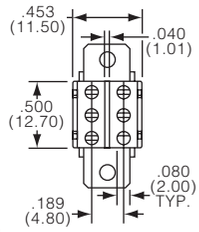




Single pole



Double pole



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Gemini A Series Rocker/Paddle (Continued)

Product key	Poles	Function	Actuator	Terminals	Contacts	Act. color	Fr. color	Material	Part Number
A101J1AB004	single	On-On	small	right angle	gold	black	n/a	RoHS	1571986-7
A101J1AQ004	pole				silver			compliant	1571986-8
A101J1AQ204						red			1571986-9
A101J1AV2B004				vertical R/A	gold	black			1-1571986-0
A101J1AV2Q004					silver				1-1571986-1
A101J1CG004				P.C.	Au on Ag				1-1571986-2
A101J1CQ004					silver				1-1571986-3
A101J1V3B004				br. .620(15.75)	gold				1-1571986-4
A101J1V3Q004					silver				1-1571986-5
A101J1ZB004				wire lug	gold				1-1571986-6
A101J1ZQ004					silver				1-1571986-7
A101J2AV2Q004				vertical R/A					1-1571986-8
A101J2ZB904				wire lug	gold	white			1-1571986-9
A101J2ZQ004					silver	black			2-1571986-0
A101J3V3Q204			large	br. .620(15.75)		red			2-1571986-1
A101J3ZQ004				wire lug		black			2-1571986-2
A101J4ZQ004									2-1571986-3
A101J4ZQ804						gray			2-1571986-4
A101J50AV2Q004			snap-in	vertical R/A		black			2-1571986-5
A101J50V3Q004				br. .620(15.75)					2-1571986-6
A101J50V3Q204						red			2-1571986-7
A101J50ZQ004				wire lug		black			2-1571986-8
A101J51CB0004			snap-in, frame	P.C.	gold		black		2-1571986-9
A101J51Z3G0004				quick c.	Au on Ag				3-1571986-0
A101J51Z3Q0004					silver				3-1571986-1
A101J51ZB0004				wire lug	gold				3-1571986-3
A101J51ZQ0004					silver				3-1571986-4
A101J51ZQ2004						red			3-1571986-5
A101J61ZQ0004						black			3-1571986-6
A103J1AV2B004		On-Off-On	small	vertical R/A	gold		n/a		3-1571986-8
A103J1AV2Q004					silver				3-1571986-9
A103J1V3Q004				br. .620(15.75)					4-1571986-0
A103J1ZQ004				wire lug					4-1571986-1
A103J2CB004				P.C.	gold				4-1571986-2
A103J2ZQ004				wire lug	silver				4-1571986-3
A103J3ZQ004			large						4-1571986-4
A103J51ZQ0004			snap-in, frame				black		4-1571986-5
A103J61ZQ0004									4-1571986-6
A105J1AQ004		(On)-Off-(On)	small	right angle			n/a		4-1571986-9
A105J1AV2Q004				vertical R/A					5-1571986-0
A105J1CQ004				P.C.					5-1571986-1
A105J1V3B004				br. .620(15.75)	gold				5-1571986-2
A105J1ZQ004				wire lug	silver				5-1571986-3
A105J2AQ004				right angle					5-1571986-4
A105J2AV2Q004				vertical R/A					5-1571986-5
A105J2ZQ004				wire lug					5-1571986-6
A105J3CQ004			large	P.C.					5-1571986-7
A105J3CQ2004						red	black		5-1571986-8
A105J3ZQ004				wire lug		black	n/a		5-1571986-9
A105J4ZQ004									6-1571986-0
A105J51ZQ0004			snap-in, frame				black		6-1571986-1
A105J52ZQ2004			snap-in, f., LED			red			6-1571986-2
A105J61ZG0004			snap-in, frame		Au on Ag	black			6-1571986-3
A105J61ZQ0004					silver				6-1571986-4
A107J51ZQ0004		On-Off-(On)							6-1571986-5
A107J61ZQ0004									6-1571986-6
A108J1V3Q004		On-(On)	small	br. .620(15.75)			n/a		6-1571986-7
A108J1ZQ004				wire lug					6-1571986-8
A108J51ZQ0004			snap-in, frame				black		6-1571986-9
A108J61ZQ0004									7-1571986-0

Catalogue No. 8-1773450-9
Issued 09/2008

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Specifications subject to change.

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Gemini A Series Rocker/Paddle (Continued)

Product key	Poles	Function	Actuator	Terminals	Contacts	Act. color	Fr. color	Material	Part Number
A201J1AQ004	double	On-On	small	right angle		black	n/a	RoHS	1571987-2
A201J1AQ204	pole					red		compliant	1571987-3
A201J1AV2Q004				vertical R/A		black			1571987-4
A201J1CQ004				P.C.					1571987-5
A201J1V3Q004				br. .620(15.75)					1571987-6
A201J1ZQ004				wire lug					1571987-7
A201J2CQ004				P.C.					1571987-8
A201J2ZQ004				wire lug					1571987-9
A201J3ZB004			large		gold				1-1571987-0
A201J3ZQ004					silver				1-1571987-1
A201J50AV2Q004			snap-in	vertical R/A					1-1571987-2
A201J50AV2Q804						gray			1-1571987-3
A201J50ZQ004				wire lug		black			1-1571987-4
A201J51ZQ0004			snap-in, frame				black		1-1571987-5
A201J51ZQ9904						white	white		1-1571987-7
A201J61Z3Q0004				quick c.		black	black		1-1571987-8
A201J61ZQ0004				wire lug					1-1571987-9
A203J1AQ004		On-Off-On	small	right angle			n/a		2-1571987-0
A203J1AV2Q004				vertical R/A					2-1571987-1
A203J1CQ204				P.C.		red			2-1571987-2
A203J1ZQ004				wire lug		black			2-1571987-4
A203J51ZQ0004			snap-in, frame				black		2-1571987-6
A203J61ZQ0004									2-1571987-7
A205J1AV2Q004		(On)-Off-(On)	small	vertical R/A			n/a		2-1571987-9
A205J1ZQ004				wire lug					3-1571987-0
A205J2CQ004				P.C.					3-1571987-1
A205J2ZQ004				wire lug					3-1571987-2
A205J51ZQ0004			snap-in, frame				black		3-1571987-3
A205J61ZQ0004									3-1571987-4
A207J1ZQ004		On-Off-(On)	small				n/a		3-1571987-5
A207J3ZQ004			large						3-1571987-6
A207J51ZQ0004			snap-in, frame				black		3-1571987-7
A207J61ZQ0004									3-1571987-8
A208J1V3Q004		On-(On)	small	br. .620(15.75)			n/a		4-1571987-0
A208J51ZQ0004			snap-in, frame	wire lug			black		4-1571987-1
A208J61ZQ0004									4-1571987-2
A211J51ZQ0004		On-On-On							4-1571987-3
A213J61ZQ0004		On-On-(On)							4-1571987-4

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Gemini AE Series Rocker/Paddle

eatures

- **Multiple actuator colors available**
- **G and Q contacts UL® recognation**
- **Sealed to IP67 select series**



Typical performance characteristics

Contact configuration . . . . . SPST, DPST
Contact timing . . . . . break-before-make
Contact rating max. . . . . B contacts: 0.4 VA @ 20 V max. AC or DC
. . . . . G contacts: 0.4 VA @ 20 V max. AC or DC or
. . . . . 5 A @ 120 VAC or 28 VDC (resistive) or
. . . . . 2 A @ 250 VAC (resistive)
. . . . . Q contacts: 5 A @ 120 VAC or 28 VDC (resistive) or
. . . . . 2 A @ 250 VAC (resistive)
Electrical life. . . . . 6,000 cycles at rated load
Mechanical life. . . . . 40,000 cycles
Contact resistance. . . . . max. 10 mOhms initial @ 2-4 VDC, 100 mA
Insulation resistance . . . . . min. 1,000 MOhms
Dielectric strength. . . . . 1,000 Vrms at sea level
Standards and specs. . . . . UL® recognition on G & Q contacts
. . . . . .

Environmental specification

Operating temperature . . . . . -30°C to 85°C
Storage temperature . . . . . -40°C to 85°C
Solder heat resistance . . . . . wave solder capable to 265°C

Material specifications

Contacts & terminals. . . . . B contacts: copper alloy w/ gold over nickel
. . . . . G contacts: copper alloy w/ silver
. . . . . Q contacts: copper alloy w/ gold over silver
Actuator . . . . . phenolic
Case. . . . . nylon red, UL94 V-0
Suport bracket . . . . . brass/ tin plated
Seal. . . . . epoxy UL94 V-1
O ring. . . . . pvc, black
Spring . . . . . music wire
Mounting bracket & rocker cap. . . . . nylon UL94 V-1
Retainer . . . . . stainless steel
RoHS Directive 2002/95/EC . . . . . compliant

Product key

Typical product key: **AE 1 01 J1 A Q 0 04**

Type
- **AE** Rocker/Paddle Switche

Number of poles
- **1** single pole
- **2** double pole

Function
- **01** On-On
- **05** (On)-Off-(On)
- **07** On-Off-(On)
- **08** On-(On)

Actuator

Rocker		Paddle	
J1	standard	**J2**	standard
J50	small	**J60**	small

Terminals

A	right angle	**W**	wire wrap .736 (18.7)
AV2	vertical R/A	**W4**	wire wrap 1.062 (27.00)
C	P.C.	**Z**	wire lug
V3, V4	vertical with support bracket	**Z3**	quick connect

Contacts
- **B** gold
- **G** gold over silver
- **Q** silver

Actuator color
- **0** black (std.)
- **2** red

Material
- **04** RoHS compliant

Catalogue No. 8-1773450-9
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Specifications subject to change.

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Gemini AE Series Rocker/Paddle (Continued)

Function

Codes 01, 05, 07 and 08

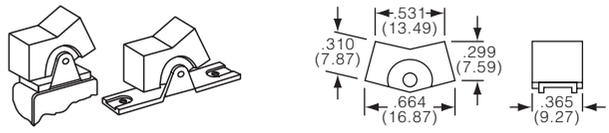
Code	Positions			
01 08	2 positions	On On	None None	On (On)
	Term. conn.	1 - 2	- - -	2 - 3
05 07	3 positions	(On) On	Off Off	(On) (On)
	Terminals connected	1 - 2 4 - 5	- - - - - -	2 - 3 5 - 6

Off — mechanical position, no electrical connection
(On) — momentary mechanical position and electrical connection
None — no mechanical position

Actuator

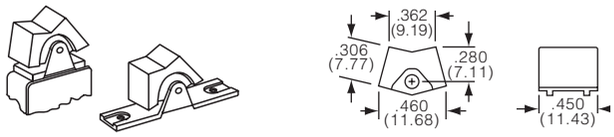
J1, J50 rockers standard and small rocker

J1 standard rocker



mounting provided with C or Z terminal types

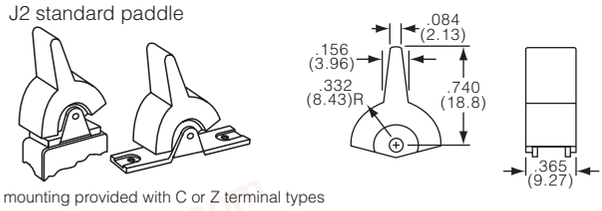
J50 small rocker



mounting provided with C or Z terminal types

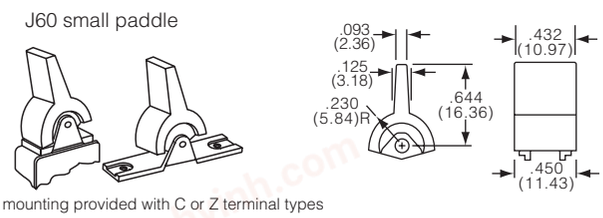
J2, J60 paddles standard and small paddle

J2 standard paddle



mounting provided with C or Z terminal types

J60 small paddle

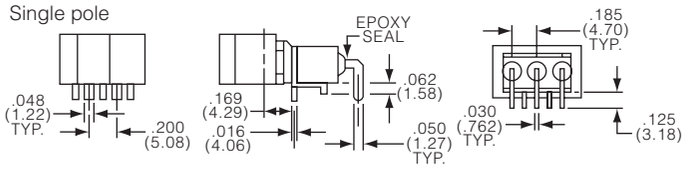


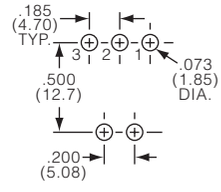
mounting provided with C or Z terminal types

Terminals

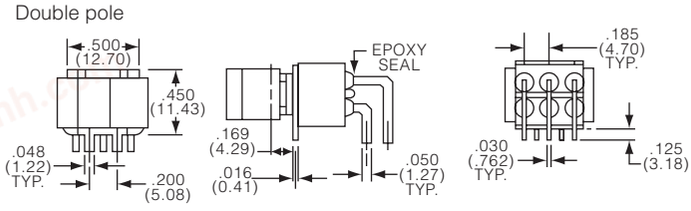
A right angle

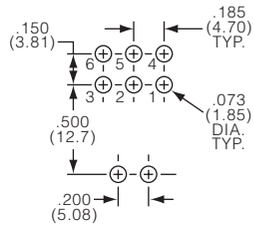
Single pole





Double pole





Catalogue No. 8-1773450-9
Issued 09/2008

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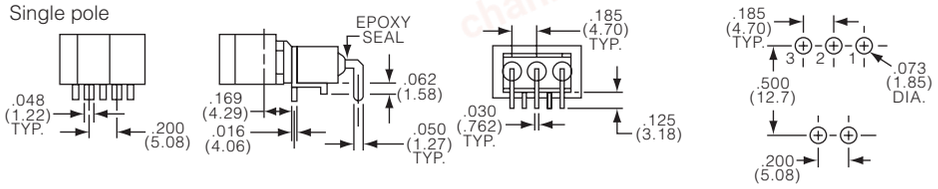
Specifications subject to change.

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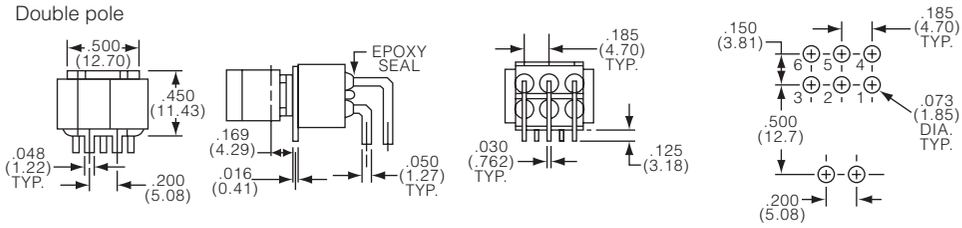
Gemini AE Series Rocker/Paddle (Continued)

AV2 vertical right angle

Single pole

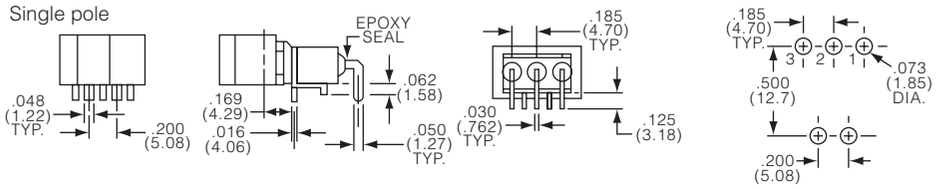


Double pole

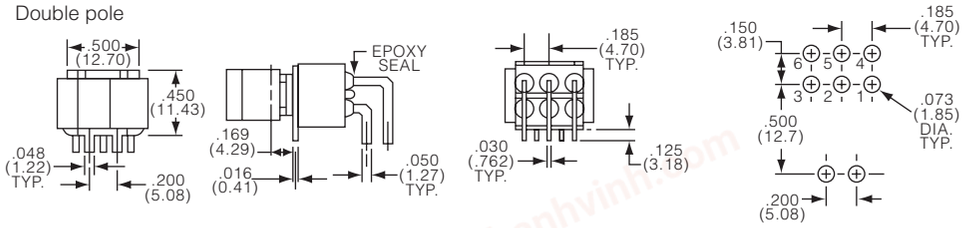


V3, V4 vertical with support bracket

Single pole

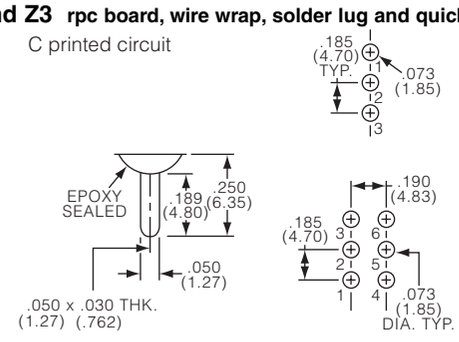


Double pole

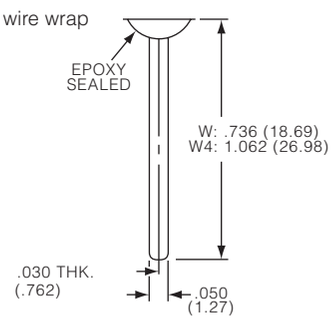


Codes C, W, W4, Z and Z3 rpc board, wire wrap, solder lug and quick connect

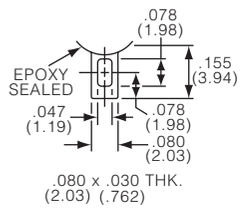
C printed circuit



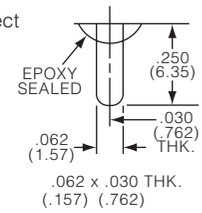
W, W4 wire wrap



Z wire lug



Z3 quick connect



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Gemini AE Series Rocker/Paddle (Continued)

Product key	Poles	Function	Actuator	Terminals	Contacts	Act. color	Material	Part Number
AE101J1AB004	single	On-On	standard	right angle	gold	black	RoHS	1571988-1
AE101J1AQ004	pole				silver		compliant	1571988-2
AE101J1AQ404						yellow		1571988-3
AE101J1AV2Q004				vertical R/A		black		1571988-4
AE101J1V3B004				br. .620(15.75)	gold			1571988-5
AE101J1V3Q004					silver			1571988-6
AE103J50V3B004		On-Off-On	small		gold			1571988-7
AE103J60V3Q204					silver	red		1571988-8
AE105J1AQ004		(On)-Off-(On)	standard	right angle		black		1571988-9
AE105J1V3B004				br. .620(15.75)	gold			1-1571988-0
AE105J1ZB004				wire lug				1-1571988-1
AE105J60V3B004			small	br. .620(15.75)				1-1571988-2
AE107J1AQ004		On-Off-(On)	standard	right angle	silver			1-1571988-3
AE107J1ZQ004				wire lug				1-1571988-4
AE108J1ZQ004		On-(On)						1-1571988-5
AE108J60V3B004			small	br. .620(15.75)	gold			1-1571988-6
AE201J1AQ004	double	On-On	standard	right angle	silver			1571989-1
AE201J1AV2Q004	pole			vertical R/A				1571989-2
AE201J1V3B004				br. .620(15.75)	gold			1571989-3
AE201J2AQ204				right angle	silver	red		1571989-4
AE203J1AQ004		On-Off-On				black		1571989-5
AE205J50V3B004		(On)-Off-(On)	small	br. .620(15.75)	gold			1571989-6
AE205J60V3B004								1571989-7
AE208J50V3B004		On-(On)						1571989-8

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