

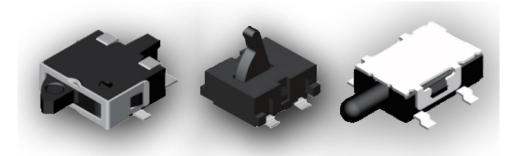
Applications

JJ Series - Detector Switches

- Automotive
- Instrumentation
- White goods
- Telecommunications

Benefits

- RoHS Compliant
- Halogen and Lead Free
- Sharp detection feeling
- Compact Size



TE Connectivity is pleased to introduce its JJ Series of Detector Switches, suitable for a wide variety of applications given their several presentations ranging from horizontal or vertical actuated options as well as Gull-winged, J-leaded and Through-Hole mounting possibilities.

The Detector Switches will be offered in a wide range of sizes giving the possibility for countless applications going from automotive to telecommunications.

JJ Series – Family Classification

Series	Body Size
JJA	3.5x2.8 mm
JJB	3.5x2.98 mm
JJC	3.5x3.3 mm
JJD	4.2x3.6 mm
JJE	4.7x3.5 mm
JJF	4.7x3.8 mm
JJG	5.7x4.0 mm (High-Rating)
JJH	5.7x4.0 mm (Standard-Rating)
JJI	5.0x4.4 mm
JJJ	6.0x4.85 mm / 5.5x4.7 mm
JJK	6.3x3.0 mm
JJL	6.5x3.9 mm
JJM	5.7x4.0 mm
JJN	5.7x4.0 mm (Wedge)
110	10.0x3.8 mm
JJP	10.6x10.0 mm

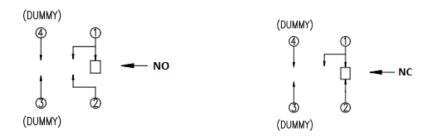


JJG Family - 5.7x4.0 mm (High-Rating)

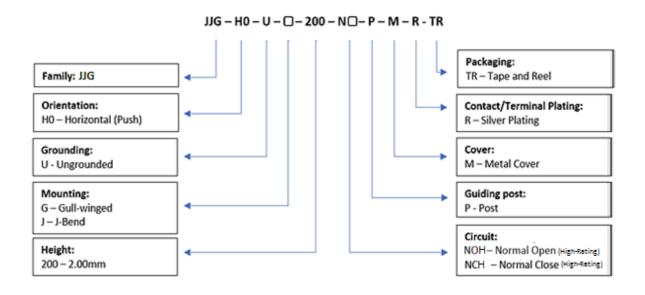
	Contact Rating	100mA, 12VDC Max.	
	Contact Resistance	1Ω Max.	
4	Insulation Resistance	100MΩ Min. 100VDC	
	Dielectric Strength	100VAC/1 minute	
	Operating Force	100±50gF Max.	
	Operating Life	100,000 cycles	
	Operating Temperature	-40°C to 85°C	

Features	Applications
Guiding post for easy orientation	• DSC
 NO and NC circuit options 	 Instrumentation
Gull-winged and J-Bend terminat	ions • Telecommunications

Circuit



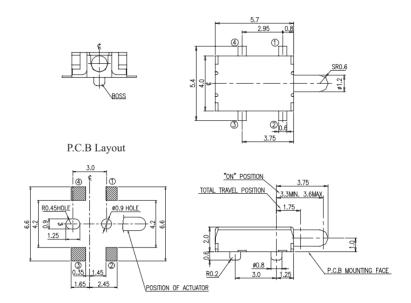
How To Order



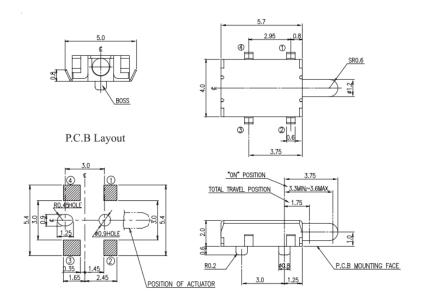


Diagrams

-Gull-winged



-J-Bend



PN List

Smart PN	Orientation	Grounding	Mounting	Height	Circuit	Guide Post	Cover	Plating	Packaging	мод	TE PN
JJGH0UG200NOHPMRTR	Horizontal (Push)	Ungrounded	Gull- winged	2.00mm	NOH	Post	Metal	Silver	Tape and Reel	3,000	2331356-1
JJGH0UG200NCHPMRTR	Horizontal (Push)	Ungrounded	Gull- winged	2.00mm	NCH	Post	Metal	Silver	Tape and Reel	3,000	2331381-1
JJGH0UJ200NOHPMRTR	Horizontal (Push)	Ungrounded	J-Bend	2.00mm	NOH	Post	Metal	Silver	Tape and Reel	3,000	2331402-1
JJGH0UJ200NCHPMRTR	Horizontal (Push)	Ungrounded	J-Bend	2.00mm	NCH	Post	Metal	Silver	Tape and Reel	3,000	2331403-1



1. Test Conditions

Standard test conditions shall be 5° C to 35° C in temperature, 45% to 85% in humidity and 86 to 106kPa in atmospheric pressure. Should any doubt arise in judgment, tests shall be conducted at $20\pm2^{\circ}$ C in temperature, 60% to 70% in humidity and 86 to 106kPa in atmospheric pressure.

2. Operating Temperature Range: -40°C to 85°C.

3. Construction:

- -Shape and dimension are subject to attached drawing regulation.
- -Appearance: whole should be a good completion, no rust, no crack and good plating.

4. Current Range: 100mA, 12VDC

5. Type of Actuation: Tactile feedback

6. Test Sequence:

	Item	Description	Test Conditions	Requirements	
Appearance	1	Visual Examination	,		
2		Contact Resistance	Actuate the switch and measure contact resistance using a micro-Ohmmeter.	1Ω Max.	
Electric Performance	3	Insulation Resistance	Measurements shall be made at 100 VDC potential between terminals and cover.	100MΩ Min.	
	4	Dielectric Withstanding Voltage	100V AC (50Hz or 60Hz) between terminals and cover for 1 minute.	There shall be no breakdown or flashover	



	5	Operating Force		100±50gF Max.
6 7 8 Mechanical Performance 9	6	Terminal Strength	The static load of 300gF shall be applied on top of the terminal in every direction for 1 minute, in optional direction on condition of once for one terminal.	No dielectric breakdown shall be occurred
	7	Control Strength	 A static load of 1KgF shall be applied to the actuator for 15 sec. in direction parallel to operation. A static load of 0.3KgF shall be applied to the actuator in pulling direction as parallel to operation for 15 sec. A static load of 0.2KgF shall be applied to the actuator for 15 sec. in direction perpendicular to operation. 	Without damage of actuator every part should not defect in appearance and mechanical performance.
	8	Control Wobble	A static load of 0.1Kgf shall be applied to the top of the actuator and then displacement shall be measured to the direction of the arrow in the figure below.	1.0mm p-p MAX.
	9	Solderability	1) Solder temperature: 260°C to 10°C 2) Immersion time: 3±0.5 Sec.	More than 75% of the dipping part shall be covered by solder— Excluding the cutting Surface.
	10	Solder Heat Resistance	1) Manual soldering -Terminal: 300°C ± 5°C -Time: 5 Sec. Max. 2) Reflow Soldering: (2) 250 230 230 230 230 230 230 230 230 230 23	1) Shall be from pronounced deforming in appearance. 2) The electronical performance requirements specified in item 2 to 4 shall be satisfied 3) Operating force: Within ±30% of initial value.
Durability	11	Life test (Without Load)	Test per method: 100,000 cycles of operating shall be performed continuously at the rate of 15 to 20 cycles/minute.	 Contact resistance: Less than 3Ω. Insulation resistance: More than 10MΩ. operating force: Within ±30% of initial value. Every part should not defect in appearance and mechanical performance.

JJG SERIES - DETECTOR SWITCHES



	12	Humidity Resistance	Following the test set for the sample shall be left temperature and humid conditions for 1 hour be measurements are mad 1) Temperature: 40±2°C 2) Relative Humidity: 90 3) Time: 96 hours (Drops of water being to		
	Weather- proof Low Temperature Resistance		Following the test set for the sample shall be left temperature and humid conditions for 1 hour be measurements are mad 1) Temperature: 85±2°C 2) Time: 96 hours	 Contact resistance: Less than 3Ω. Insulation resistance: More than 10MΩ. operating force: 	
			Following the test set for the sample shall be left temperature and humid conditions for 1 hour be measurements are mad 1) Temperature: -20±2° 2) Time: 96 hours (Drops of water being to	Within ±30% of initial value. 4) Every part should not defect in appearance and mechanical performance.	
15		Temperature Cycle Test	After repeating the following test cycles 5 times, and in the normal ambient condition 1 Hour, then to be measured within 1 Hour. Temperature Time 1 -20 ± 3°C 30 Minutes 2 20 ± 2°C 15 Minutes 3 70 ± 20°C 30 Minutes 4 20 ± 2°C 15 Minutes (Drops of water being taken away)		

■ Precautions in Handling

- 1. Care must be taken to ensure excess flux on the top surface of the printed circuit board does not adhere to the switch.
- 2. Do not wash the switch.

■ Recommended storage conditions:

Store the products in the original packaging material. After opening the package, the remaining products must be stored in the appropriate moisture-proof & airtight environment.

Do not store the switch in the following environment or it may affect performance and solderability:

- 1. temperatures below -10° C to 40°C & humidity at 85% (min)
- 2. environment with corrosive gas
- 3. storage over 6 months
- 4. place in direct sunlight

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ESE-13V01C ESE-13V01A ESE-13H01B ESE-11MH1T ESE-11MH2T ESE-11MV1 ESE-31L11T HDS001R SPVL110102 ESE-11MV1T
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DS0900502RP T0-SCB22MP1NC1 T0-SCB22MP1NSX ESE-11SH5 ESE-13H01A ESE-13H01C ESE-13H01D ESE-18R63D ESE24CMH6T SPVN210101 SPPB110300