

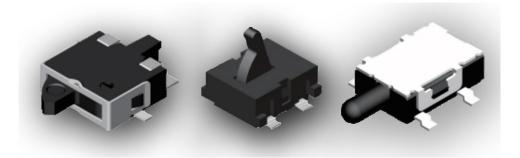
Applications

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.

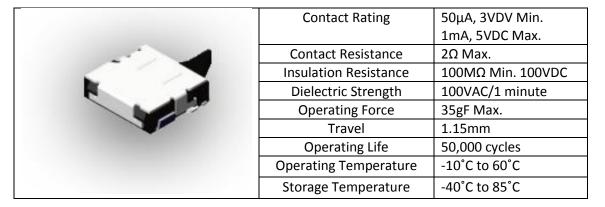
The Detector Switches will be offered in a wide range of sizes giving the possibility for countless applications going from automotive to telecommunications.

JJ Series – Family Classification

Series	Body Size			
JJA	3.5x2.8 mm			
JJB	3.5x2.98 mm			
11C	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			

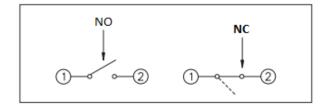


JJC Family – *3.4x3.3 mm*

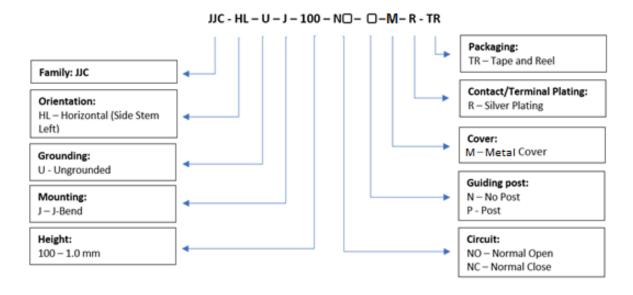


Features	Applications			
Compact size	Digital camera			
Tow-way operation	Notebook			
Halogen Free	Automotive			

Circuit



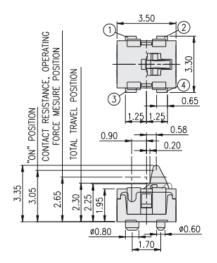
How To Order

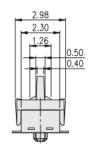


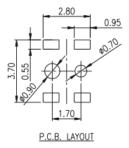


Diagrams

-Posted







PN List

Smart PN	Orientation	Grounding	Mounting	Height	Circuit	Guiding Post	Cover	Plating	Packaging	мод	TE PN
JJCHLUJ100NCPMRTR	Horizontal (Side Stem Left)	Ungrounded	J-Bend	1.0mm	NC	Post	Metal	Silver	Tape and Reel	3,500	2331384-1
JJCHLUJ100NCNMRTR	Horizontal (Side Stem Left)	Ungrounded	J-Bend	1.0mm	NC	No Post	Metal	Silver	Tape and Reel	3,500	2331386-1
JJCHLUJ100NOPMRTR	Horizontal (Side Stem Left)	Ungrounded	J-Bend	1.0mm	NO	Post	Metal	Silver	Tape and Reel	3,500	2331387-1
JJCHLUJ100NONMRTR	Horizontal (Side Stem Left)	Ungrounded	J-Bend	1.0mm	NO	No Post	Metal	Silver	Tape and Reel	3,500	2331388-1

JJC SERIES - DETECTOR SWITCHES



1. Style

"Detector Switches" are mainly used as signal switches of electric devices, with the general requirements of mechanical and electrical characteristic.

1.1 Operating Temperature Range: -10 °C to 60°C

1.2 Storage Temperature Range: -40°C to 85°C

1.3 The shelf life of product is within 6 months

2. Current Range: Min. 50μA, 3VDC // Max. 1mA, 5VDC

3. Type of Actuation: Momentary

4. Test Sequence:

	Item	Description Test Conditions		Requirements	
Appearance	1	Visual Examination	Physical inspection without applying any external forces.	There shall be no defects that affect the serviceability of the product.	
2		Contact Resistance	Actuate the switch (2.3mm) and measure contact resistance using a micro-Ohmmeter.	2Ω Max	
Electric Performance	3	Insulation Resistance	Measurements shall be made at 100 VDC potential between terminals and cover.	100MΩ Min	
	4	Dielectric Withstanding Voltage	Apply 100 VAC (50Hz or 60Hz) between terminals and cover for 1 minute.	There shall be no breakdown or flashover	
	5	Operating Force	Applying force to the center of the stem for 2.3mm.	35gf Max. (.34N Max.)	
	6	OFF start position		As the specification shows OFF start position	



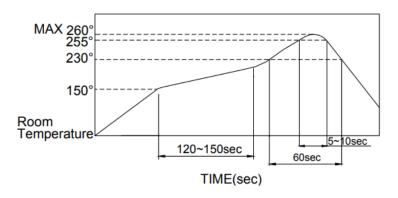
	7	Stop Strength	Static load of 500gf (4.9N) can be vertical applied for 15 seconds. While 100gf (0.98N) /15 seconds horizontal.	As shown in items 2 to 6
Mechanical Performance	8	Solder Heat Resistance	(See chart below)	1) Shall be free from pronounced backlash and falling-off or breakage terminals 2) As shown in item 4 to 5 3) Contact Resistance: 5Ω Max. 4) Insulation Resistance: 10ΜΩ Min.
	9	Vibration	Test per Method 201A of MIL-STD-202F 1) Swing distance=1.5mm 2) Frequency: 10-55-10Hz in 1-min/cycle. 3) Direction: 3 vertical directions including the directions of operation 4) Test time: 2 hours each direction	 As shown in items 4 to 5 Contact Resistance: 2Ω Max. Insulation Resistance: 10MΩ Min.
	10	Shock	Test per Method 213B condition A of MIL-STD-202F 1) Acceleration; 50G 2) Action time:11±1m seconds 3) Testing Direction: 6 sides 4) Test Cycle: 3 times in each direction	 As shown in items 4 to 5 Contact Resistance: 2Ω Max. Insulation Resistance: 10MΩ Min.
Durability	Durability 11 Operating Life		Measurements shall be made following the test forth below: 1) 1mA,5 VDC resistive load 2) Applying a static load in the direction of operation equal to the operation force to the center of the stem. 3) Rate of Operation: 15 to 20 operations per minute. 4) Cycle of Operation: 50,000 cycles Min.	 As shown in items 4 to 5 Insulation Resistance: 10MΩ Min. Contact Resistance: 5Ω Max.
Weather Proof	12	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made: 1) Temperature: -40±2°C 2) Time: 96 hours	1) As shown in items 4 to 7 2) Insulation Resistance: 10ΜΩ Min 3) Contact Resistance: 5Ω Max.
	13	Heat Resistance	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made: 1) Temperature:85±2°C 2) Time: 96 hours	1) As shown in items 4 to 7 2) Insulation Resistance: $10M\Omega$ Min 3) Contact Resistance: 5Ω Max.



Weather Proof	14	Humidity Resistance	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made: 1) Temperature:40±2°C 2) Relative Humidity: 90 to 95% 3) Time: 96 hours	1) As shown in items 4 to 7 2) Insulation Resistance: 10MΩ Min 3) Contact Resistance: 5Ω Max.
	15	The switch shall be subjected to fine mist of solution at a temperature of 35±2°C for 48 hours continuously (salt solution concentration 5±1% by weight.) EIA-364-26		Without excessive rust
	16	Change of Temperature	After 5 cycles of following conditions, the switch shall be allowed to stand under normal room temperature, and Humidity condition for an hour, and measurement shall be made within an hour after that.	1) As shown in items 4 to 5 2) Insulation Resistance: 10MΩ min 3) Contact Resistance: 5Ω Max
	17	Moisture Sensitivity levels	2a ≤ 30°C to 60% RH 4 Weeks	1) As shown in items 1 to 7

5. Soldering Conditions:

■ Recommended Soldering Profile for the JJC Series



- The temperatures defined above are the temperatures measured on the surface of the Printed Circuit Board. There are cases where the printed circuit board's temperature differs greatly from the temperature of the switch. Critical note: the switch's surface temperature must not exceed 260°C.
- Manual Soldering

Soldering Temperature: 350°C ± 5°C

Continuous Soldering Time: Max. 5 seconds

JJC SERIES - DETECTOR SWITCHES



- 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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Detector Switches category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

E3S-LS5C4S SPVQ850300 21075-6 SPVQ860100 K2CU-F20A-F AC220 D3DM0005H D3DM0001E D3DM0003A HARB0012 PP27H1-2D2 PP1-FB7-2D2 PP2-7U1-2B2 PP1-ET7-2B2 MR1000AWA MR1000BWA ESE-24SH6 ESE-31R11T ESE-23F101 ESE-13V01D
ESE-13V01C ESE-13V01A ESE-13H01B ESE-11MH1T ESE-11MH2T ESE-11MV1 ESE-31L11T HDS001R SPVL110102 ESE-11MV1T
ESE-13V01B ESE-23J101 SPPW811200 ESE-58R61B SPVQ361300 ESE-58R11B SPVT210201 SPVL120101 ESE-24CMV9T DS080
DS0900502RP T0-SCB22MP1NC1 T0-SCB22MP1NSX ESE-11SH5 ESE-13H01A ESE-13H01C ESE-13H01D ESE-18R63D ESE24CMH6T SPVN210101 SPPB110300