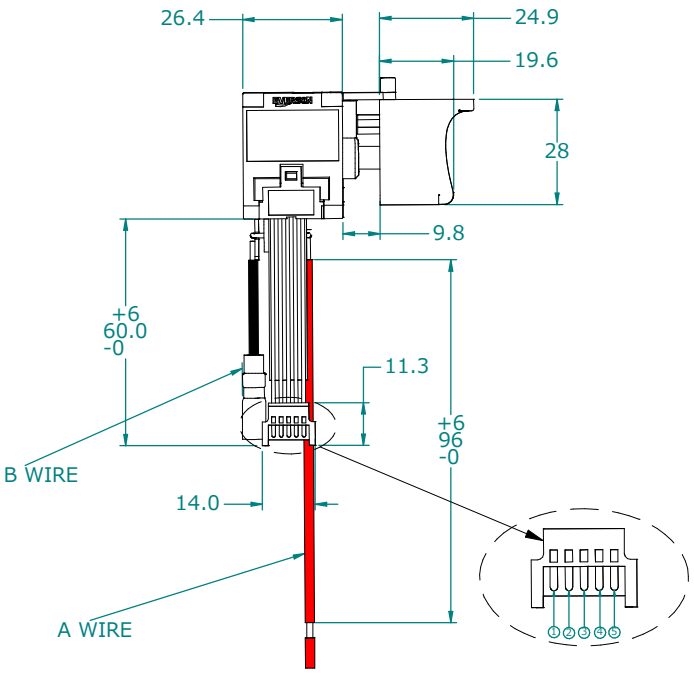
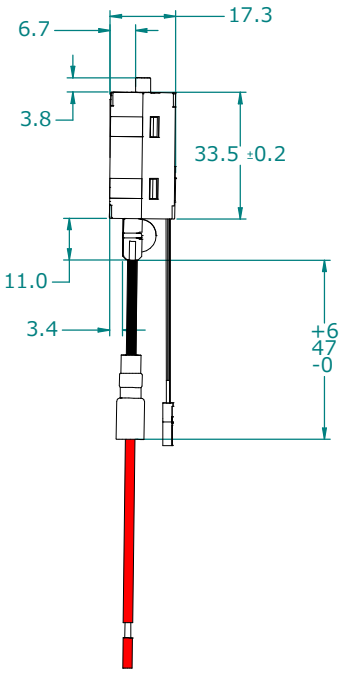
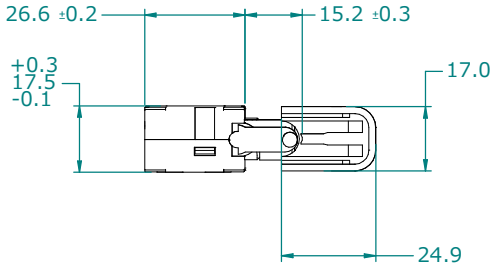
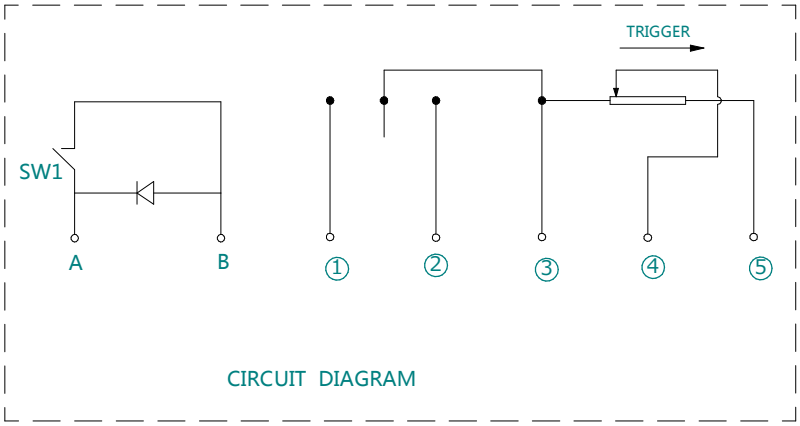
EVERSON TECHNOLOGY LTD

Unit: mm





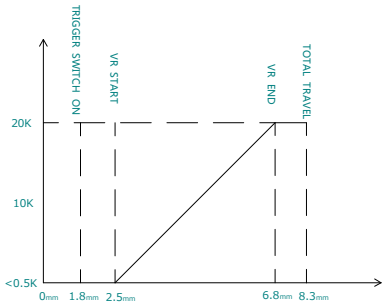




CIRCUIT DIAGRAM

PART SPECIFICATIONS:

1. RATING : 24VDC 20A
2. ELECTRICAL LIFE:500K CYCLES
3. MECHANICAL LIFE:1,000 K CYCLES;
4. REVERSING SWITCH LIFE:100 K CYCLES;
5. TRIGGER ACTUATOR FORCE 25N MAX. AT 8.3MM TRAVEL;
6. SPEC: SEE DPT01-SPEC-001



TRAVEL DIAGRAM

EVERSON	**EVERSON TECHNOLOGY LTD**			CUSTOMER: GENERAL	
PART NAME: DPT01203BS	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±1° 0PL 0.5; 1 PL ±0.2; 2 PL ±0.08	SIZE **A4**	SCALE: 3 X	DRAWN BY: ZY.LIANG	CHECKED BY:
PART SERIES: DPT01		REV -		APPROVED BY:	ISSUED DATE :

SPECIFICATION

PRODUCT SERIES	PRODUCT TITLE	SPECIFICATION NO.
DPT01	POWER TOOL SWITCH	DPT01-SPEC-001

1 General information

1.1 Working temperature: -10℃ ~70℃

1.2 Storage temperature: -20℃ ~85℃

1.3 Test Conditions:

1.3.1 Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests is as follows:

Temperature: 5~35℃

Relative humidity: 45%~85%RH

Air pressure: 86~106Kpa

1.3.2 If there are any doubtful points in judgment or reproductively is needed, the test conditions shall be in accordance as below.

Temperature: 5~35℃

Relative humidity: 45%~85%RH

Air pressure: 86~106Kpa

2 Appearance and Dimension

2.1 Appearance : No damages in the visual inspection, such as deformation and breaks.

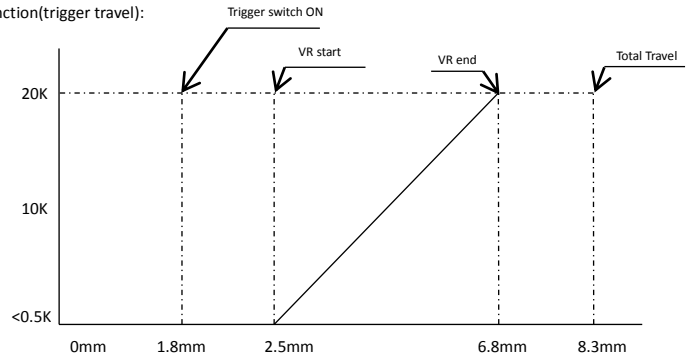
2.2 Dimension: Please view product drawing.

3 Electrical characteristics

3.1 Switch Rating: 24VDC 20A

3.2 Total VR resistance: 20KΩ±20%

3.3 Switch Function(trigger travel):



PRODUCT SERIES	PRODUCT TITLE	SPECIFICATION NO.
DPT01	POWER TOOL SWITCH	DPT01-SPEC-001

3.4 Switch contact resistance: <150mΩ

3.5 Reversing switch life: 100,000 cycles life test

3.6 Electrical endurance life: 500K cycles life test

3.7 Mechanical endurance life: 1,000K cycles life test.

3.8 Insulation resistance: 100MΩ@500VDC

4 Mechanical characteristics

4.1 Operation force: 15N~25N on the trigger

4.2 Switch change over force: 2.5N~8.5N

4.3 Trigger switch travel: 1.8±0.3mm

4.4 VR start travel: 2.5±0.4mm

4.5 VR end travel: 6.8±0.4mm

4.6 Total travel: 8.3±0.4mm

4.7 IP Rating: IP50

5 Durability

After test, the product shall meet the initial specifications unless otherwise specified.

5.1 Trigger life test:

SPEC: Total resistance value change lower than ±20% Max. after 500K life cycles.

Test Condition as below:

5.1.1 Test expose temperature: Room temperature.

5.1.2 Test travel: 1.8mm~6.8mm travel

5.1.3 Test speed: 2000 cycles /H.

5.1.4 Test cycle: 500K cycles.

5.1.5 No load test.

5.1 Reversing life test:

PRODUCT SERIES	PRODUCT TITLE	SPECIFICATION NO.
DPT01	POWER TOOL SWITCH	DPT01-SPEC-001

SPEC: The contact resistance value lower than 150mΩ after 100K life cycles.

Test Condition as below:

5.2.1 Test expose temperature: Room temperature.

5.2.2 Test speed: 600 cycles /H.

5.2.3 Test cycle: 100K cycles.

5.2.4 No load test.

5.3 Dry heat test:

SPEC：Resistance value change within ±10%, electrical & mechanical meet specs

Test Condition: 96hours at 85±2℃ and air dry 2hours .

5.4 Cold test:

SPEC: Resistance value change within ±10%, electrical & mechanical meet specs

Test Condition: 96hours at -20±2℃ and air dry 2hours.

5.5 Humidity test:

SPEC: Resistance value change within ±20%, electrical & mechanical meet specs

Test Condition: 96hours at 40±2℃&95%RH and air dry 96hours.