

TLS Series

Soft Sound Tactile Switch



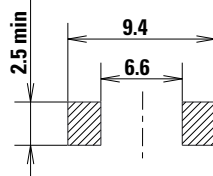
Specifications

Power	10 μ A min. / 0.8 VA max.
Voltage	DC 1V min. / 16 V max.
Current	10 μ A min. / 50 VA max.
Operating Temperature	-40°C to 90°C

Process

Packaging	Switches in reels of 900 pieces. Dimensions of reels according to EIA 481B. External diameter 330 mm.
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PCB Layout



Circuit Diagram



Description

TLS is an additional tactile series in a new form factor (8.6 x 8.40 x 3.95 mm) in SMT, with soft actuator and a flat cage for a positive tactile feedback with a soft sound. Its soft actuator & pre-travel help for an easier tolerance management with possible pre-load.

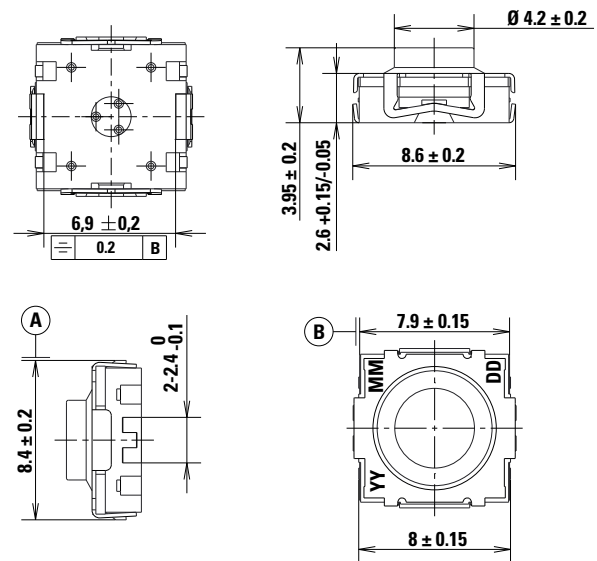
Features & Benefits

- New soft sound
- Soft actuator
- IP54
- Long life
- J terminations
- Tape & reel

Applications

- Automotive interior controls
- Automatic gear shift paddle
- Steering wheel
- Window lifter
- Seat adjustment module

TLS Drawings and Dimensions



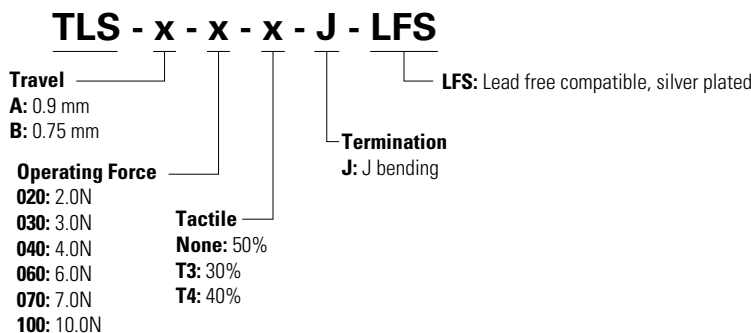
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Ordering Number

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box. For any part number different from those listed above, please consult your local representative.



Mechanical Characteristics

Supply Status	Littelfuse Orderable Part Number	Description	Contact & Terminals Plating	Terminals	Operating Force Fa (Newtons)	Tactile ratio (%)	Operating Life (operations)	Electrical Travel (mm)	Actuator Color
✓	TLSA020T4JLFS	SWITCH TLSA020T4JLFS	Silver	J leads	2.0 ± 0.5	40 ± 15	1,000,000	0.9±0.3	Light Gray
✓	TLSA030T4JLFS	SWITCH TLSA030T4JLFS	Silver	J leads	3.0 ± 0.5	40 ± 15	500,000	0.9±0.3	Purple
✓	TLSA040JLFS	SWITCH TLSA040JLFS	Silver	J leads	4.0 ± 0.8	50 ± 15	1,000,000	0.9±0.3	Cyan
✓	TLSA040T3JLFS	SWITCH TLSA040T3JLFS	Silver	J leads	4.0 ± 0.8	30 ± 15	1,000,000	0.9±0.3	Dark Blue
✓	TLSA070JLFS	SWITCH TLSA070JLFS	Silver	J leads	7.0 ± 1.5	50 ± 15	500,000	0.9±0.3	Black
✓	TLSA070T3JLFS	SWITCH TLSA070T3JLFS	Silver	J leads	7.0 ± 1.5	30 ± 15	500,000	0.9±0.3	Light Pink
✓	TLSA100JLFS	SWITCH TLSA100JLFS	Silver	J leads	10.0 ± 2.0	50 ± 15	300,000	0.9±0.3	Red
✓	TLSA100T3JLFS	SWITCH TLSA100T3JLFS	Silver	J leads	10.0 ± 2.0	30 ± 15	300,000	0.9±0.3	Light Green
✓	TLSB040JLFS	SWITCH TLSB040JLFS	Silver	J leads	4.0 +1.0/-0.5	50 ± 15	1,000,000	0.75±0.2	Brown
✓	TLSB060JLFS	SWITCH TLSB060JLFS	Silver	J leads	6.0 +1.5/-0.75	50 ± 15	500,000	0.75±0.2	Orange

Notes:

Supply status:

✓: Available for ordering.

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