VERTICAL LIMIT SWITCH

VXT-LS-T11 & VXT-LS-T11M

Plunger Type

VXT-LS-T11 · Standard / Conduit Entry

VXT-LS-T11M · M12 Connector Entry

A straight-plunger limit switch for direct, in-line actuation where a cam or dog approaches the switch head perpendicularly. Compact 100.6 mm body with a metal plunger for precise, repeatable tripping.

VXT-LS-T11 (standard) | VXT-LS-T11M (M12 connector)

Key Features

- Double-circuit type limit switch (1NO + 1NC)
- High mechanical strength — intensive plastic with aluminium die-cast body
- Small size, water-proof & oil-proof construction (IP65)
- Built-in contact box with double-spring for long mechanical life
- Smooth operation with larger over-travel distance
- Conduit design for convenient cabling
- Wide range of actuators for different applications
- Electrical life: 500,000+ operations (250V / 6A resistive load)

Typical applications: Precise end-of-travel detection, slides, in-line cam sensing, tooling fixtures.

CE CCC TÜV IP65

Manufactured in a facility that maintains CE | CCC (GB/T 14048.5) compliance standards.

Technical Specifications

General Specifications	
Operation Speed	**5mm ~ 0.5m/s**
Operating Frequency	**30 operations/min (electrical)**
Contact Resistance	**25mΩ max. (initial value)**
Insulation Resistance	**100MΩ min. (at 500VDC)**
Minimum Working Load	**DC24V 10mA min.**
Rated Insulation Voltage (Ui)	**300V**
Rated Impulse Withstand Voltage (Uimp)	**4kV**
Conventional Free Air Heating Current (Ith)	**10A**

Environmental Specifications	
Ambient Temperature	**-20°C to +70°C (with no icing)**
Humidity	**<95% RH**
Vibration	**10–55Hz, 1.5mm double amplitude**
Shock (Mechanical)	**1,000 m/s² (approx. 100G)**
Shock (Malfunction)	**300 m/s² (approx. 30G)**
Protection Rating	**IP65**

Electrical Life & Durability	
Electrical Life	**500,000+ operations (250V / 6A resistive load)**
Dielectric Strength	**1000VAC, 50/60Hz · 1 min — between terminals of same polarity**
	1500VAC, 50/60Hz · 1 min — between current-carrying & non-current-carrying parts
	1500VAC, 50/60Hz · 1 min — between each terminal and ground

Safety Certification Ratings	
CCC (GB/T 14048.5)	**AC-15 : 6A / 250V**
TÜV (EN 60947-5-1)	**DC-13 : 0.3A / 220V**

Electrical Ratings

Voltage	Resistive	Lamp	Inductive	Motor
AC125V	6A	NC 1.5A / NO 0.7A	3A	NC 2A / NO 1A
AC250V	6A	NC 1A / NO 0.5A	3A	NC 1.5A / NO 0.8A
DC12V	6A	3A	4A	3A
DC24V	6A	3A	4A	3A
DC125V	NC 0.4A / NO 0.2A	—	—	—
DC50V	NC 0.4A / NO 0.2A	—	—	—

Surge current — NC: max. 24A | NO: max. 12A. Figures denote consistent (steady-state) current levels.

VXT-LS-T11 / VXT-LS-T11M — Operating Data

Operating Characteristics	
Operating Force OF (Max.)	**9 N**
Release Force RF (Min.)	**1 N**
Pre-travel PT (Max.)	**1.8 mm**
Over-travel OT (Min.)	**4 mm**
Movement Differential MD (Max.)	**1 mm**
Total Travel TT (Min.)	**5.5 mm**
Operating Position OP	**26 ± 0.8 mm**

Linear actuator — travel values in millimetres.

Dimensions	
Overall Height	**100.6 mm**
Body Width	**21 ± 0.2 mm**
Body Depth	**29 mm**
Body Height	**56 ± 0.2 mm**
Total Depth	**63.5 mm**
Top Plate Width	**20 mm (inner 10.2)**
Actuator	**Plunger: Ø8.7 mm (Metal)**
Plunger Extension	**28 mm**
Mounting Screws	**4 × M5×P0.8, depth ≥ 7.5 mm**
Mounting Holes	**4 × Ø4.2 mm**
Conduit Entry	**Standard / M12**
Conduit Base	**15.5 × 25.2 mm**
Side Clearance	**22.5 mm**

Contact Form & Wiring

Contact form: 1NO + 1NC (double circuit) · Terminals — Pin 14 (NO), Pin 13 (NO), Pin 11 (NC), Pin 12 (NC)

Ordering Information

Plunger Type

Standard / conduit (cable-gland) entry	**VXT-LS-T11**
M12 quick-disconnect connector entry	**VXT-LS-T11M**

Notes

1. Inductive load refers to a power factor of 0.4 (AC) or a time constant of <7ms (DC).
2. Lamp load may experience surge currents up to 10× the normal rating.
3. Motor load may experience surge currents up to 6× the normal rating.
4. Where NC / NO values are equal, a single value is shown.
5. Shock specifications exclude the coil-spring type.

Specifications subject to change without notice. Please verify the latest specifications before ordering.