

VERTICAL LIMIT SWITCH

# VXT-LS-T5 & VXT-LS-T5M

Metal Roller Swing Rod Type

VXT-LS-T5 · Standard / Conduit Entry

VXT-LS-T5M · M12 Connector Entry

A metal-roller swing-rod limit switch for heavier-duty cam and lever actuation. The hardened metal roller withstands higher cycle rates and more aggressive contact surfaces than the resin equivalent.

### 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:** Heavy machine tools, presses, robust conveyor and indexing applications.

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



VXT-LS-T5 (standard) | VXT-LS-T5M (M12 connector)

## Technical Specifications

General Specifications		Environmental Specifications	
Operation Speed	5mm ~ 0.5m/s	Ambient Temperature	-20°C to +70°C (with no icing)
Operating Frequency	30 operations/min (electrical)	Humidity	<95% RH
Contact Resistance	25mΩ max. (initial value)	Vibration	10–55Hz, 1.5mm double amplitude
Insulation Resistance	100MΩ min. (at 500VDC)	Shock (Mechanical)	1,000 m/s <sup>2</sup> (approx. 100G)
Minimum Working Load	DC24V 10mA min.	Shock (Malfunction)	300 m/s <sup>2</sup> (approx. 30G)
Rated Insulation Voltage (Ui)	300V	Protection Rating	IP65
Rated Impulse Withstand Voltage (Uimp)	4kV	Electrical Life & Durability	
Conventional Free Air Heating Current (Ith)	10A	Electrical Life	500,000+ operations (250V / 6A resistive load)
Safety Certification Ratings		Dielectric Strength	1000VAC, 50/60Hz · 1 min — between terminals of same polarity
CCC (GB/T 14048.5)	AC-15 : 6A / 250V		1500VAC, 50/60Hz · 1 min — between current-carrying & non-current-carrying parts
TÜV (EN 60947-5-1)	DC-13 : 0.3A / 220V		1500VAC, 50/60Hz · 1 min — between each terminal and ground

## 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	—	—	—

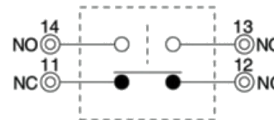
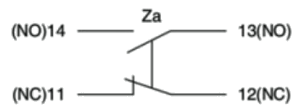
Surge current — NC: max. 24A | NO: max. 12A. Figures denote consistent (steady-state) current levels.

## VXT-LS-T5 / VXT-LS-T5M — Operating Data

Operating Characteristics		Dimensions	
Operating Force OF (Max.)	7.5 N	Overall Height	126.5 mm
Release Force RF (Min.)	1 N	Body Width	21 ± 0.2 mm
Pre-travel PT (Max.)	20°	Body Depth	29 mm
Over-travel OT (Min.)	75°	Body Height	56 ± 0.2 mm
Movement Differential MD (Max.)	12°	Total Depth	63.5 mm
Total Travel TT (Min.)	95°	Top Plate Width	40 mm
		Mounting Spacing	35 mm
		Top Section Height	18.7 mm
		Actuator	Roller: Ø18 × 6.5 mm (Metal)
		Lever Arm Radius	R29.5 to R72.5 mm
		Lever Pivot Height	12.5 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

OP not specified for swing-rod (angular travel).

## Contact Form & Wiring



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

## Ordering Information

### Metal Roller Swing Rod Type

Standard / conduit (cable-gland) entry

VXT-LS-T5

M12 quick-disconnect connector entry

VXT-LS-T5M

Forced-disconnect variants (NC only)

VXT-LS-T5-FD & VXT-LS-T5M-FD (NC only)

### 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.*