

VXT-LS-T4 & VXT-LS-T4M

VERTICAL LIMIT SWITCH

Plastic Roller Swing Rod Type · VXT-LS Series

VXT-LS-T4 · Standard / Conduit Entry

VXT-LS-T4M · M12 Connector Entry

A plastic-roller swing-rod limit switch built for general-purpose machine guarding and cam-driven sensing. The resin roller is ideal for lighter contact surfaces where a non-marring actuator is preferred.

Certifications: CE | CCC | TÜV | IP65

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)



VXT-LS-T4 (standard) | VXT-LS-T4M (M12 connector)

Typical applications: Conveyors, material-handling lines, packaging machinery, position sensing on guards and gates.

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

Technical Specifications

General Specifications

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

Safety Certification Ratings

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

Environmental Specifications
Ambient Temperature -20°C to +70°C (with no icing)

Humidity <95% RH

Vibration 10-55 Hz, 1.5 mm 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 1000 VAC, 50/60 Hz · 1 min — between terminals of same polarity

1500 VAC, 50/60 Hz · 1 min — between current-carrying & non-current-carrying parts

1500 VAC, 50/60 Hz · 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-T4 / VXT-LS-T4M — Operating Data

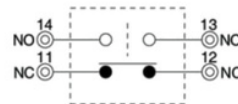
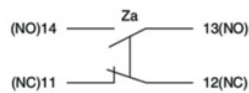
Operating Characteristics		Dimensions	
Operating Force OF (Max.)	7.5 N	Overall Height	126.5 mm
Release Force RF (Min.)	1 N	Body Width	21 ± 0.2 mm
Pre-travel PT (Max.)	20°	Body Depth	29 mm
Over-travel OT (Min.)	75°	Body Height	56 ± 0.2 mm
Movement Differential MD (Max.)	12°	Total Depth	63.5 mm
Total Travel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

Plastic Roller Swing Rod Type

Standard / conduit (cable-gland) entry

VXT-LS-T4

M12 quick-disconnect connector entry

VXT-LS-T4M

Forced-disconnect variants (NC only)

VXT-LS-T4-FD & VXT-LS-T4M-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.