VERTICAL LIMIT SWITCH

VXT-LS-T8 & VXT-LS-T8M

Adjustable Swing Rod, Plastic Roller Type · VXT-LS Series

VXT-LS-T8 · Standard / Conduit Entry

VXT-LS-T8M · M12 Connector Entry

An adjustable-length swing-rod limit switch with a plastic roller. The telescopic arm (123.5–166.5 mm) allows the actuation point to be tuned on site for variable target geometries — ideal where a single fixed lever can't reach every cam or target position.

Certifications: CE | CCC | TÜV | IP65

VXT-LS-T8 (standard) | VXT-LS-T8M (M12 connector)

Key Features

- Double-circuit type limit switch (1NO + 1NC)
- Adjustable telescopic arm (123.5–166.5 mm) for on-site tuning
- 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
- Electrical life: 500,000+ operations (250V / 6A resistive load)

Typical applications: Machines with variable cam positions, retrofit installations, custom OEM equipment, conveyors and adjustable guards/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-T8 / VXT-LS-T8M — Operating Data

VXT-LS-T8M · M12 quick-disconnect connector entry

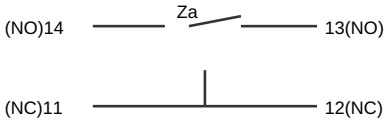
Operating Characteristics	
Operating Force OF (Max.)	7.5 N
Release Force RF (Min.)	1 N
Pre-travel PT (Max.)	20°
Over-travel OT (Min.)	75°
Movement Differential MD (Max.)	12°
Total Travel TT (Min.)	95°

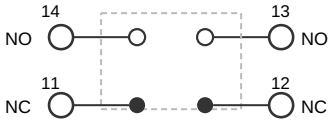
OP not specified for swing-rod (angular travel).

Dimensions	
Overall Height	123.5 ~ 166.5 mm (Adjustable)
Body Width	21 ± 0.2 mm
Body Depth	29 mm
Body Height	56 ± 0.2 mm
Total Depth	63.5 mm
Top Plate Width	47.5 mm
Mounting Spacing	42.5 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

Contact Form & Wiring

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





Ordering Information

Adjustable Swing Rod, Plastic Roller Type	
Standard / conduit (cable-gland) entry	**VXT-LS-T8**
M12 quick-disconnect connector entry	**VXT-LS-T8M**
Forced-disconnect variants (NC only)	**VXT-LS-T8-FD & VXT-LS-T8M-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.