GRXRLSX01

VERTICAL RAIL SLIDER



OVERVIEW

The Groxx GRXRLSX01 is a sophisticated vertical rail slider engineered specifically for integration with rigid vertical rail lifeline systems. Designed for use on ladders, pylons, and wind turbine internals, this slider functions as a guided-type fall arrester, providing workers with hands-free vertical mobility while maintaining an instantaneous lock-on capability in the event of a descent acceleration.

KEY FEATURES

- **Guided-Type Fall Arrest**: The GRXRLSX01 is designed to glide effortlessly along the vertical rail profile during normal ascent and descent.
- **Bi-Directional Locking**: Engineered with a specialized locking pawl that engages with the rail profile. In the event of a fall, the slider locks within centimeters, significantly reducing the total fall distance compared to flexible cable systems.
- **Anti-Inversion Logic**: The slider incorporates a "fail-safe" orientation feature that prevents the device from being installed upside down on the rail, eliminating a common cause of vertical system failure.
- **Integrated Shock Dissipation**: While the rail is rigid, the GRXRLSX01 is designed to interface with an energy-absorbing lanyard to cap the Maximum Arrest Force (MAF) below the critical 6 kN threshold.

TECHNICAL SNAPSHOT

PARAMETER	GRXRLSX01
Model Number	GRXRLSX01
Primary Material	AISI 304/316 Stainless Steel
EN requirement	Static 15 kN (22 kN textile elements); max. arrest force 6 kN; max. arrest distance 1 m
Locking Mechanism	Cam-Inertia Gravity Brake
Compatibility	Groxx Vertical Rigid Rail Systems
Static Strength	≥ 15 kN
Safe Working Load	Rated for 1 User (140 kg max capacity)
Unit Weight	800 g

INSTALLATION & USE

Stainless Steel Construction: Manufactured from high-grade stainless steel to ensure the locking cams and springs remain free of corrosion, which is vital for the mechanical timing of the fall...

Ergonomic Release: Features a manual bypass or release trigger that allows the user to easily remove or attach the slider at designated "gate" sections of the vertical rail.

Smooth Transit: Internal low-friction bushings are utilized to ensure the slider does not "chatter" or hang up during climbing, reducing user fatigue.

STANDARDS

EN 353-1:2014

> The GRXRLSX01 provides a level of security and comfort that cable-based vertical lifelines cannot match.

FULL DATA SHEET ↗

Product page ↗