



EnviroShield™ Extreme Environment Self Retracting Lifeline

4102XXX Series

Rev. B 09.24



100% Stainless Steel & Military-Grade Anodized Aluminum Construction with NO Structural Castings



1. Durable Stainless Steel Anchorage Connection
2. Stainless Steel Bulkhead Plates form the Front & Rear Face and separate the three internal chambers
3. Sealed Power Spring & Clutch Chambers achieve IP69K Rating, surpassing the less stringent IP68 requirements
4. Features the Reliance FailSafe™ Locking Mechanism for positive locking performance EVERY time. The ULTIMATE in Anti-Ratcheting design.
5. Durable Extruded Aluminum Housing eliminates the porosity common in castings and greatly reduces machining costs
6. Built-in Carry Handle with Comfort Grips
7. Stainless Steel Formed Drum Assembly for increased strength & durability
8. Billet Aluminum Hub protects Sealed Clutch Chamber
9. Sacrificial Zinc Anodes eliminate galvanic corrosion
10. Ergonomic Cable Grip
11. Stainless Steel Load-Indicating Carabiner & Stainless Steel Wire Rope STANDARD (not optional)

The EnviroShield™ design began with a blank piece of paper and was engineered to provide unmatched protection in extreme environments. We began by selecting the best materials that would yield the most durable, long lasting product available. We then selected the most effective and efficient manufacturing methods to ensure that we could make the highest level of protection AFFORDABLE. The end-result is a product that performs better and lasts longer with lower acquisition costs and lower long-term cost of ownership.

Under the International Electrotechnical Commission IEC 60529 standard, Ingress Protection is evaluated to determine the degree of protection provided against the intrusion of dust and water into mechanical casings and electrical enclosures. To achieve a Rating of IP69K, which is the highest possible rating, an assembly must be dust-tight, allowing absolutely no ingress of dust, and must also prevent the intrusion of powerful, high-temperature water jets. **Reliance EnviroShield™ not only meets these requirements, but also withstands an unprecedented 1,000 hour salt-spray.**

Specifications

Intrusion Standards

- IEC 60529 - IP69K

Performance Specifications

Maximum Arrest Force	≤ 1,800 lbs
Average Arrest Force	≤ 900 lbs
Arrest Distance	< 42"
Capacity	310 lbs

Material Specifications

Housing	Anodized Aluminum
Bulkhead Plates	Stainless Steel
Drum	Stainless Steel
Constituent Line	Wire Rope, Stainless, 3/16", 7x19
Attachment-End Connector	Load-Indicating, Stainless Steel
Locking Mechanism	Mechanically Activated
Energy Management System	Rotary Brake

U.S. Patent Numbers 10,744,354 and 9,968,804

Reliance EnviroShield™ Self Retracting Lanyards

Part Number	Working Length	Meets	Connector Type
4102050-1	50'	OSHA Title 29 CFR, Subparts I&M	SST, LI Swivel Carabiner
4102050-4	50'	ANSI/ASSE Z359.17-2021 Class 1	SST, LI Swivel Carabiner
4102085-1	85'	OSHA Title 29 CFR, Subparts I&M	SST, LI Swivel Carabiner
4102085-4	85'	ANSI/ASSE Z359.17-2021 Class 1	SST, LI Swivel Carabiner
4102100-1	100'	OSHA Title 29 CFR, Subparts I&M	SST, LI Swivel Carabiner
4102130-1	130'	OSHA Title 29 CFR, Subparts I&M	SST, LI Swivel Carabiner
4102130-4	130'	ANSI/ASSE Z359.17-2021 Class 1	SST, LI Swivel Carabiner
4102175-1	175'	OSHA Title 29 CFR, Subparts I&M	SST, LI Swivel Carabiner

