

# NAMCO

**RUGGED HEAVY DUTY LIMIT SWITCHES FOR HARSH AND DEMANDING APPLICATIONS**



**ENGINEERED WITH**  
**SNAP-LOCK<sup>®</sup>**  
**TECHNOLOGY**

# SNAP-LOCK®

The SNAP-LOCK® mechanism is what makes our position indication switches so unique. Utilizing this technology in our design enables us to produce a robust, highly reliable and trusted product for the nuclear industry.

**SNAP:** Our solutions have a “snap” action which enables a quick action from one position to another, effectively eliminating deadband. The contacts are forced to be in one position or the other and cannot dwell in-between open or closed.

**LOCK:** Instead of relying on spring or magnetic force, each switch has a locking mechanism that mechanically forces the contacts to stay closed until released by the trip lever. This eliminates any possible contact chatter due to vibration or seismic events.

NAMCO utilizes different SNAP-LOCK® mechanisms detailed in the drawings on the right. The type of mechanism selected is based on your application.

## WHY SNAP-LOCK®

- Quick make and quick break
- Heavy Duty Contacts for electrical durability
- Reusable switching
- Totally sealed construction for most environmental conditions
- High and low temperature models, range of operating torques and choice of housing types increase application capabilities
- Custom capabilities to meet unique application requirements

## APPLICATIONS

NAMCO Limit Switches with SNAP-LOCK® technology are used in all industries on a variety of critical applications.

- |                             |                      |   |
|-----------------------------|----------------------|---|
| • Valve Position Indication | • Mobile Equipment   | • Davits  |
| • Actuator Position         | • HVAC Dampers       | • Ore Bridges   |
| • Conveyors                 | • Presence Detection | • Rolling Mill Aux.                                     |
| • Over Travel Protection    | • Door Closure       | • And other Marine, Oil & Gas and Military applications |
| • Overhead Cranes           | • Level Detection    |   |

## APPLICABLE STANDARDS

- |  |   |
|--|---|
| • CSA C22.2 No. 14-95 — Industrial Control Equipment | • MIL-C-2212F — Military Standard Testing |
| • CSA C22.2 No. 94-M91 — Special Purpose Enclosures  | • MIL-STD-167B — High Vibration           |
| • UL 508 — Industrial Control Equipment              | • MIL-STD-108E — Water High Test          |
| • UL50 — Enclosures for Electrical Equipment         | • MIL-S-901 — High Shock Environments     |

## RUGGED HEAVY DUTY SWITCHES

Series	Product Image	Options	Contacts	Environmental Rating (NEMA Type)	Enclosure	Dimensions	Special Features
EA040 EA060 EA080		Neutral Short Travel Standard	1 N.O. / 1 N.C. 2 N.O.	1, 4, 13	Zinc	4.94"x2.38"x2.5"	Compact Size Water, Oil & Dust Tight Rocker Type Switch
EA170		Standard, Wide & Long Mount	2 N.O. / 2 N.C.	1, 4, 13	Aluminum/ Zinc	6.58"x2.87"x2.6"	Short Travel Reverse Shift Rocker Type Switch
EA880		Standard Mount	1 N.O. / 1 N.C. 2 N.O.	1, 4, 7, 9, 13	Brass/ Aluminum	5.75"x2.88"x3.28"	Hazardous Location Rocker Type Switch
EA700		Standard, Wide & Long Mount	1 N.O. / 1 N.C. 2 N.O. / 2 N.C. 3 N.O. / 3 N.C.	1, 4, 13	Zinc	4.84"x2.25"x2.6" 7.06"x2.25"x2.6" 9.62"x2.25"x2.6"	Water, Oil & Dust Tight Cam Type Switch
EA780 EA790		Standard, Wide & Long Mount	1 N.O. / 1 N.C. 2 N.O. / 2 N.C.	1, 4, 4X, 6, 6P, 13	Bronze	4.84"x2.25"x2.6" 7.06"x2.25"x2.6"	Water Tight & Submersible Navy/Marine (EA790) Cam Type Switch
EA800		Standard	1 N.O. / 1 N.C. 2 N.O. / 2 N.C. 3 N.O. / 3 N.C.	4, 4X, 6, 6P, 7, 9	Aluminum/ Bronze	6.47"x4.6"x4.01" 8.5"x4.6"x4.01" 10.56"x4.6"x4.01"	Explosion Proof -40°C to +150°C Cam Type Switch

Electrical Rating: 1.5A@250VDC; 5A@125VDC; 5A@600VAC; 10A@480VAC; 15A@250VAC; 20A@125VAC  
Form Z contacts

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## HEAVY DUTY

Hazardous Location ✦ Marine ✦ Severe Environment

### LET'S TALK HEAVY DUTY

NAMCO grew from the heavy duty side of the industrial world. For decades, SNAP-LOCK® Limit Switches have been the benchmark in reliability for steel mills, auto factories, foundaries, power plants and machine shops.

In 1953, the need for a limit switch of high quality, repeatability and reliability was pressing — but one didn't exist. NAMCO was created to step in and fill the gap! Innovative and reliable from the beginning, they were eagerly sought after by other companies and we branched out into supplying the demand.

Everything that made NAMCO SNAP-LOCK® Limit Switches the preference of the heavy and machine tool industries of the past is still applicable today. Times may have changed, but our reputation for reliability has not.

Today, NAMCO still provides unparalleled reliability in the toughest environments and in heavy duty applications. They have the ruggedness to operate under the most severe conditions and have the durability needed for a long, trouble-free lifespan.

### HIGHEST QUALITY MANUFACTURING

NAMCO products are manufactured and tested to the highest quality standards. Our commitment to our Quality Program means you, our customer, get world-class products and top-notch customer service.

- Manufactured to a proven and robust QA Program
- ISO 9001-2008 Certified
- Made in U.S.A.

### CONTACT US

Not sure what you need? Our experienced engineers and application specialists will help you support any of your application needs. Contact us at [info@sptech.com](mailto:info@sptech.com) or call 800-390-6405 or 910-862-2511.



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