



**We make
highways
talk™**

- **MANAGEMENT**
- **SAFETY**
- **PRESERVATION**

International Road Dynamics Inc. develops and maintains traffic management products and systems technology that make highways talk. What are they saying? They are providing information that roadway administrators need to manage traffic, preserve infrastructure and provide safety warnings to drivers.

IRD's multi-discipline, innovative and customer-focused team is expert in advanced technologies, advanced traffic solutions and custom-designed systems.



**CUSTOMER
DRIVEN™**

AUGUST, 2006 REV. C
PRINTED IN CANADA

DYNAX® Treadles For Toll Roads

IRD DYNAX® treadles are speed independent axle sensing systems which consist of sensors mounted in a metal frame. The metal frame is installed directly into the road surface allowing for individual sensor replacement directly into the treadle frame, rather than the road surface. The DYNAX® sensors are secured by removable clamping bars. This design eliminates the need for subsequent roadway excavation to replace sensors, making it ideal for use in toll and traffic monitoring applications where minimizing downtime is critical.

The DYNAX® sensors are pressure sensitive and are unaffected by speed variations, making them ideal for stop-and-go traffic conditions. Combined with other sensors and systems, DYNAX® sensors can be used to detect and classify vehicles. Standard DYNAX® sensors or Single/Dual DYNAX® sensors may be used in the treadles. Standard sensors detect axles, while Single/Dual sensors can detect number of tires per axle.



DYNAX® 4 Strip treadle



DYNAX® sensor

IRD has a wide array of treadle models, including single, two, three and four sensor models. IRD offers two different treadle designs: conventional two-piece construction and single unit construction (unibody). Conventional construction consists of two pieces, the frame and insert, while unibody construction combines the frame and insert into one structure.

Conventional treadles can be utilized for both new and retrofit installations. Unibody treadles are ideal for low profile, shallow depth installations.

MODELS AVAILABLE

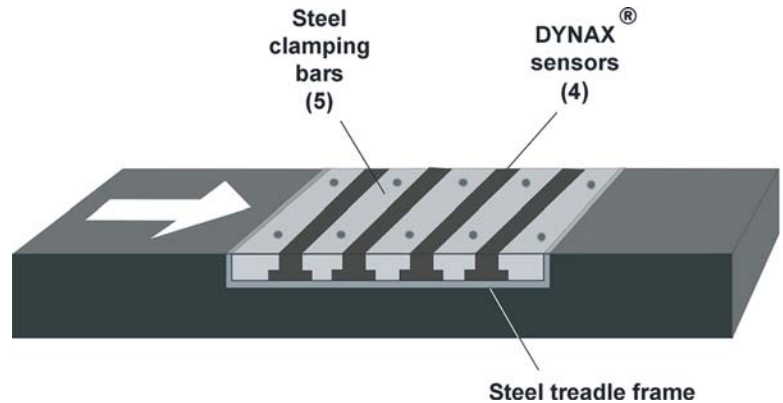
Conventional:	4 Sensors	- Model AS410 (8 ft wide)
		- Model AS415 (10 ft wide)
	2 Sensors	- Model AS408 (8 ft wide)
Unibody:	4 Sensors	- Model AS440 (8 ft wide)
		- Model AS441 (10 ft wide)
	3 Sensors	- Model AS430 (8 ft wide)
		- Model AS439 (10 ft wide)
	2 Sensors	- Model AS438 (8 ft wide)
		- Model AS435 (10 ft wide)
	1 Sensor	- Model AS404 (8 ft wide)
		- Model AS418 (10 ft wide)

DYNAX® TREADLES

Specifications/General etc

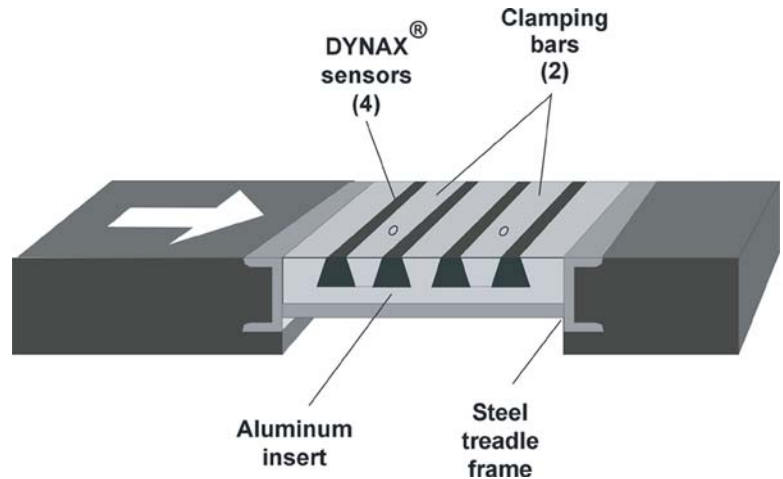
UNIBODY

- High strength steel single piece structure
- Shallow body depth for low profile installations
- Bridge deck installations
- Convenient maintenance
- Fewer parts means lower maintenance costs
- T-shaped inverted locking mechanism



CONVENTIONAL

- Two piece construction: aluminum insert and steel frame
- DYNAX® sensors are installed in a durable treadle insert and frame
- Treadle insert and sensors can be installed into new roads or retrofit into existing frames
- Keystone shape locking mechanism



International
Road Dynamics Inc.



Corporate Office

702 - 43rd Street East
Saskatoon, Saskatchewan
Canada S7K 3T9
Tel: (306) 653-6600
Fax: (306) 242-5599
Toll Free: 1-877-7IRD-ITS (747-3487)
Email: info@irdinc.com

U.S. Office

2402 Spring Ridge Drive, Suite E
Spring Grove, IL
USA 60081
Tel: (815) 675-1430
Fax: (815) 675-1530

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