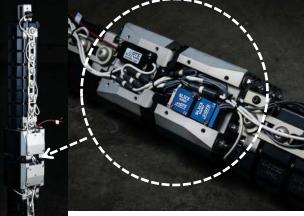
PRODUCT DATASHEET

MEETS SPECIFICATIONS FOR EU & US NCAP TESTING

SLICE Flexible Pedestrian Legform Impactor Integrated Data Acquisition for Cable-Free Operation



The FLEX PLI Leg supports up to 48 channels of integrated SLICE NANO data acquisition. Embedding the data recorders eliminates trailing cables that may get tangled or cause issues with noise or data loss. The turn-key solution is engineered to maintain proper mass, center of gravity (CG) and moments.

Features

- Cable-free operation
- Engineered to assure proper mass, CG and moments
- Level trigger or contact closure
- Supports up to 48 channels of SLICE NANO data acquisition
- · Super capacitor powered during launch
- Data writes directly to 16 GB flash memory
- Intuitive, easy-to-use software
- Complies with ISO 6487 and SAE J211 recommended practices, as well as NHTSA and FAA requirements



The SLICE Flexible Pedestrian Legform Impactor integrates the ultra-small SLICE NANO data acquisition system into a cable-free solution for pedestrian safety testing. Offering the ultimate in flexibility and reliability, the legform is armed via a PC, disconnected, then powered and launched any time without trailing cables. The system can be triggered with a level trigger or contact closure and data writes directly to flash memory. A quick-charging super capacitor ensures reliable data capture and storage during the launch event.



Software

DTS offers two powerful software options for the SLICE legform. SLICEWare provides fast, easy tools for storing sensor information, performing data collection, viewing and exporting data. DataPRO is a fully-featured software package with a comprehensive database and user interface for tracking sensor information, creating test objects and test setups, performing diagnostic routines, and conducting tests. Both software packages offer the most advanced self-diagnostics, plus support for EQX, ISO MME and many other data exchange file formats.





APPLICATIONS

 Flexible Pedestrian Legform Impactor

SLICE NANO also works with Free Motion and Pedestrian Headforms

PRODUCTS

Diversified Technical Systems designs and manufactures data acquisition systems and sensors for experienced test professionals.

Specifications



BASE+ SLICE NANO

One (1) required per	stack – system microprocessor & memory
Size:	26 x 31 x 6.5 mm (1.02 x 1.22 x 0.26")
Weight:	14.2 g (0.50 oz)
Connectors:	Omnetics, circular locking, 12-pin

BRIDGE SLICE NANO

Size: Weight: Connectors:

Three (3) inputs for external sensors 26 x 31 x 5.5 mm (1.02 x 1.22 x 0.22") 13.8 g (0.49 oz) Omnetics, circular locking; 3 single-channel 7-pin or 1 three-channel 16-pin



PERCAP-De Siz

Designed specifically for the Pedestrian Legform			
Size:	55 x 15 x 22 mm (2.2 x 0.6 x 0.87")		
Weight:	27 g (0.95 oz)		
Charge Time:	~2 minutes		
Discharge Rate:	>3 seconds for 12 channels		
	>1.5 seconds for 24 channels		

Bandwidth: Gain Range: Auto Offset Range Bridge Support: Shunt Check: Sensor ID: Linearity (typical): Accuracy:	Software controlled half-bridge completion Emulation method, automatically calculated Maxim Integrated (Dallas) silicon serial number				
ANALOG-TO	ANALOG-TO-DIGITAL CONVERSION				
Туре:	16-bit SAR (Successive Approximation Register) ADC, one per channel, simultaneous sample of all channels				
EXCITATION	EXCITATION				
Method: Voltage: Power Manageme	Independent regulator for each channel 5.0 V, up to 20 mA, short circuit safe ent: Shutdown when not armed or recording				
ANTI-ALIAS	FILTER				
Fixed Low Pass: Adjustable Low Pa Response:	4-pole Butterworth, standard knee frequency at 40 kHz				
SOFTWARE					
Control: Operating System	SLICEWare, DataPRO s: Windows® 7/8/10 (32- and 64-bit)				

USB

SIGNAL CONDITIONING

Input Range: Bandwidth:

Number of Channels: 3 differential, programmable

±2.4 V (2.5 V center)

Ordering Information

The DTS Flexible Pedestrian Legform Impactor kit can be customized for specific requirements - see available options below. Contact sales@dtsweb.com for more information.

Communication:

Choose FLEX System Kit	DTS Part Number	Description +	
	13000-40070	SLICE NANO 12-channel FLEX System Kit	
	13000-40080	SLICE NANO 15-channel FLEX System Kit	
	13000-40090	SLICE NANO 18-channel FLEX System Kit	
	13000-40100	SLICE NANO 24-channel FLEX System Kit	
Kit Includes: SLICE NANO BASE, NANO Bridges, Supercap+, NANO Stack Extender,			
SLICE FLEX quick-release bracket, sensor connector assemblies			

Choose Launcher	DTS Part Number	Description		
integration kit	13000-40110	SLICE FLEX Launcher Integration Kit, USB		
	13000-40130	SLICE FLEX Launcher Integration Kit, Ethernet		
Kit Includes: SLICE USB or Ethernet Interface, SLICE UI/EI NANO chain,				
SLICE FLEX quick release, SLICE FLEX latching chain				

+ Add Software (if not already owned)	DTS Part Number	Description
	10920-03002	SLICEWare
	10920-04010	DataPRO



Specifications subject to change without notice. © Diversified Technical Systems, Inc.

SERVICES

24/7 Worldwide Tech Support ISO 17025 (A2LA) Calibration **On-site Calibration & Training Application Consulting** Software Integration **OEM/Embedded Applications**

WORLDWIDE SUPPORT

HELP CENTER (24/7/365 Access) **DTS Technical Centers Global Sales Partners**

HEADQUARTERS

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