

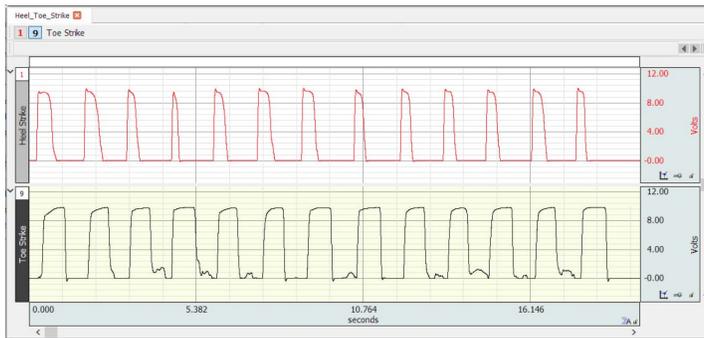
## HEEL-TOE STRIKE TRANSDUCERS

SS28LA

TSD111A

BN-STRIKE-XDCR

Use this transducer to record heel and toe strike activity as the subject walks. The heel/toe strike data is recorded on two analog channels: one channel records heel strike and the other, toe strike. Strikes are indicated by positive deflections on the graph. Two force sensitive resistors (FSR) attach to the sole of a shoe; use two transducers to record from both feet.



Heel-toe strike data graph, SS28LA, TSD111, and BN-STRIKE-XDCR (R to L).

## HEEL-TOE STRIKE SPECIFICATIONS

Nominal Output Range: (after amplification)	0 to +10 V
Nominal Contact Force:	200 g to indicate heel/toe strike
Attachment:	TAPE1, TAPE2, Vinyl Electrical or Duct Tape
FSR Dimensions:	18.3 mm (dia) x 0.36 mm (thick) and 30 cm pigtail lead
FSR Active Area:	12.7 mm (dia)
Cable Length: SS28LA & TSD111A	7.6 meters
BN-STRIKE-XDCR:	30 cm
Interface: SS28LA	MP36R/36/35/46/45 System
TSD111A	AMI100D/HLT100C/MP160/150 System
BN-STRIKE-XDCR	BN-STRIKE/MP160/150 System

## HEEL-TOE STRIKE CALIBRATION

BN-STRIKE, TSD111A, and SS28LA do not require calibration.

Registered impulses on each channel simply reflect the timing marks associated with heel/toe strike contact during gait. The amplitude of each impulse is indicative of force measured at the time of strike. Although this amplitude value does not have an exact linear relationship to force, it is monotonically related. As force increases, amplitude increases. If precise force measurements are required, then weights could be sequentially applied to each sensor to perform a rough calibration within a narrow operational range. An expression channel could be used in AcqKnowledge or BSL PRO software to linearize a heel/toe strike sensor over a wide operational range.

## RX111 REPLACEMENT HEEL-TOE STRIKE SENSOR

Replacement strike sensor for Heel/Toe Strike transducers.

**Note:** Heel/Toe Strike Transducers without the "A" suffix in the part number (SS28L/TSD111) do not have a replaceable sensor. Check the part number or check the cable for a removable sensor connector before ordering this replacement.

