HEEL-TOE STRIKE TRANSDUCERS

SS28LA
TSD111A
SS28A
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 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Nominal Output Range</td>
<td>0 to +10 V (after amplification)</td>
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<tr>
<td>Nominal Contact Force</td>
<td>200 g to indicate heel/toe strike</td>
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<tr>
<td>Attachment</td>
<td>TAPE1, TAPE2, Vinyl Electrical or Duct Tape</td>
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<tr>
<td>FSR Dimensions</td>
<td>18.3 mm (dia) x 0.36 mm (thick) and 30 cm pigtail lead</td>
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<td>FSR Active Area</td>
<td>12.7 mm (dia)</td>
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<tr>
<td>Cable Length</td>
<td>7.6 meters</td>
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<tr>
<td>Cable Length – BN-STRIKE-XDCR</td>
<td>30 cm</td>
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<tr>
<td>Interface</td>
<td>SS28LA MP36/35 System</td>
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<tr>
<td></td>
<td>TSD111A AMI100D/HLT100C/MP160/150 System</td>
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<td></td>
<td>SS28A TEL100C/MP160/150 System</td>
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<td>BN-STRIKE-XDCR BN-STRIKE/MP160/150 System</td>
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HEEL-TOE STRIKE CALIBRATION

BN-STRIKE, TSD111A, SS28LA or SS28A 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. Furthermore, an expression channel could be used in AcqKnowledge (TSD111A) or BSL PRO (SS28LA) 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.