Engineering the Weighing Process

Tel.: 91-80-28375381/28390102 Fax: 91-80-28378716/28398262 E-mail: mechatronics@sartorius-india.com Website: www.sartorius-india.com
Toll Free: 1600 44 8787
Sartorius EBHL Belt Weigher

The Sartorius EBHL belt weigher is a compact, rugged belt weigher with stainless steel load cell for use in Raw Material Handling plants.

The EBHL Belt Weigher includes:
- Two idler weigh beam, with one Load cell and speed sensor assembly.

Areas of Application
- Monitoring of Handler Volumes, flow rates (% or Tons per hour).
- For all bulk goods in the Construction Material, Cement Industry, Mining, Coal, Steel/Iron industry, Chemical and Food Industry.

Load Cell Technical Data

- **Accumulation**
  - 0.03 %
  - 0.017 %
  - 0.011 %

- **Temperature effect on output**
  - +0.25 %
  - +1 %
  - <0.01 %

- **Input Impedance**
  - 400Ω ± 20Ω

- **Output Impedance**
  - 350Ω ± 3.5Ω

- **Insulation Impedance**
  - >2000x10³Ω

- **Recommended supply voltage**
  - 10 V

- **Max. supply voltage**
  - 15 V

- **Nominal ambient temp. range**
  - 10...+40°C

- **Usable ambient temp. range**
  - 20...+65°C

- **Cable**
  - 3 m, 4 wires with screen

**MP47 load Cell**

**Load Cell Technical Data**

<table>
<thead>
<tr>
<th>N</th>
<th>C1</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.03 %</td>
<td>0.02 %</td>
</tr>
</tbody>
</table>

**Accuracy class**

- 0.03 %
- 0.017 %
- 0.011 %

**Minimum dead load**

- Eₖₑₖ

**Rated capacity**

- Eₘₑₖ

**Safe overload**

- Cₙₑₖ 2m V/V

**Rated output**

- Cₙₑₖ

**Tolerance on rated output**

- ±0.25 % Cₙₑₖ

**Tolerance on output**

- ±1 % Cₙₑₖ

**Temperature effect on zero**

- TKₑₖ

**Temperature effect on output**

- TKₑₖ

**Repeatability**

- Eₑₖ

- <0.01 % Cₙₑₖ

**Creep, during 30 min.**

- dₑₖ

- <0.03 % Cₙₑₖ

**Controller Acc. to IEC 1131-6, Display Rate, Belt Speed, Belt Load, Totalizer.**

**Optional:** Field bus, Ethernet, Analog I/O's, Control I/O's. Serial interfaces (RS232 / RS485).

5000d for the internal weighing point accuracy.

Green fluorescent 7 digits Display for TPH plus status symbols.

Front panel controls and function keys.

Built-in RS232 interface for communication.

Built-in power connection for 230 V/115 V AC.

EBHL Belt Weigher Technical Data Type

<table>
<thead>
<tr>
<th>EBHL Type</th>
<th>EBHL600</th>
<th>EBHL800</th>
<th>EBHL1100</th>
<th>EBHL1600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt Width (mm)</td>
<td>400,500,650</td>
<td>800,1000</td>
<td>1200,1400</td>
<td>1600,1800</td>
</tr>
<tr>
<td>Channel Width</td>
<td>700,1000</td>
<td>1000,1400</td>
<td>1400,1800</td>
<td>2050,2200</td>
</tr>
<tr>
<td>Min Space Between Stringers (mm)</td>
<td>600</td>
<td>800</td>
<td>1100</td>
<td>1400</td>
</tr>
<tr>
<td>Ap. Range kg/m</td>
<td>80...100</td>
<td>20...200</td>
<td>45...300</td>
<td>95...250</td>
</tr>
<tr>
<td>Weight Kg</td>
<td>65</td>
<td>85</td>
<td>95</td>
<td>115</td>
</tr>
</tbody>
</table>

**Belt Speed**

- From 0.35m/sec to 4m/s

**Capacity**

- 186kg/m to 300 kg/m

**Conveyor Incline**

- ±20° from horizontal, fixed incline Upto ±30°

**Idler Profile**

- Flat to 35° up to 45° with reduced accuracy

**Accuracy**

- ±0.50 % to 1% of Totalization & Application Dependent

**Belt Width**

- 400 to 1800 mm

**Hazardous Locations**

- With the use of approved intrinsically safe barrier strips

**PR 1713/00 Integrator Technical Data**

- Easy operation via function keys on a clearly arranged Membrane Keyboard (No special training required).

- Stainless steel housing with IP 65.

- Modern µP technology with Automatic Zeroing Function.

- System check data protection in case of power failure.

- Error Diagnosis, Service friendly design, Automatic calibration, Modular extensions, Good legibility due to Bright VFD, Programmable weighing.

- Controller Acc. to IEC 1131-6, Display Rate, Belt Speed, Belt Load, Totalizer.

- Optional: Field bus, Ethernet, Analog I/O's, Control I/O's. Serial interfaces (RS232 / RS485).

**Controller**

- 5000d for the internal weighing point accuracy.

**Display**

- Green fluorescent 7 digits Display for TPH plus status symbols.

**Input Impedance**

- 400Ω ± 20Ω

**Output Impedance**

- 350Ω ± 3.5Ω

**Insulation Impedance**

- >2000x10³Ω

**Recommended supply voltage**

- 10 V

**Max. supply voltage**

- 15 V

**Nominal ambient temp. range**

- 10...+40°C

**Usable ambient temp. range**

- 20...+65°C

**Cable**

- 3 m, 4 wires with screen

**Protection class**

- IP 65

**Full stainless steel construction hermetically welded seal (IP 67)**

Approved to OIML R60