

## Hermetic Stainless Steel Single Point Platform Size 500x400 mm



### Wash Down Applications

SLP845 is the right choice for the food or pharmaceutical industry where daily wash down is required. It provides best weighing performance in a hermetically sealed stainless steel load cell. Thus it is ideal for stainless steel scales or general weighing applications where the highest grade of IP protection and corrosion resistance is required.



### Off-Center Compensation

One load cell can be used to support a weighing platform and, due to the off-center load compensation, the SLP845 will weigh within tolerance regardless of load application point.



### Robustness

SLP845 is an extremely robust single point load cell suitable for almost all industrial environments. It allows 50% static overload without compromising the weighing performance.



### SLP845

#### Hermetic Single Point Load Cell

The SLP845 load cell features:

- OIML, NTEP, ATEX and FM approvals
- Hazardous area approvals
- Hermetically sealed IP68/IP69K
- Stainless steel
- 500x400 mm platform size
- 15–200kg capacity range

The SLP845 is the ideal solution for scales, packaging and process weighing where a hermetically sealed stainless steel load cell is required for harsh chemical and washdown environments. Due to the low profile the integration into any system is easy. The broad capacity range and large platform size allows wide application in industrial weighing applications.

# SLP845 Load Cell Specifications

| Parameter                                 | Unit of measure              | Specification  |               |              |              |              |            |
|---|------------------------------|--|---------------|--------------|--------------|--------------|------------|
| Model No.                                 |                              | SLP845   |               |              |              |              |            |
| Rated Capacity (R.C.)                     | kg (lb, nominal)             | 15 (33)  | 22 (48)       | 50 (110)     | 100 (220)    | 200 (441)    |            |
| Rated Output                              | mV/V @R.C.                   | 2 ± 10%  |               |              |              |              |            |
| Zero load Output                          | %R.C.                        | ≤ 1.0  |               |              |              |              |            |
| Combined Error <sup>1) 2)</sup>           | %R.C.                        | ≤ 0.018  |               |              |              |              |            |
| Repeatability Error                       | %A.L. <sup>3)</sup>          | ≤ 0.01   |               |              |              |              |            |
| Creep, 30 minute                          | %A.L.                        | ≤ 0.017  |               |              |              |              |            |
| Min. Dead Load Output Return (DR), 30 min | %A.L.                        | ≤ 0.017  |               |              |              |              |            |
| Temperature Effect on                     | Min. Dead load Output        | ≤ 0.001 (0.0007) ; 0.003 (0.0016)  |               |              |              |              |            |
|   | Sensitivity <sup>2)</sup>    | ≤ 0.001 (0.0006)   |               |              |              |              |            |
| Temperature Range                         | Compensated                  | -10 ~ +40 (+14 ~ +104)   |               |              |              |              |            |
|   | Operating                    | -40 ~ +65 (-40 ~ +150)   |               |              |              |              |            |
|   | Safe Storage                 | -40 ~ +80 (-40 ~ +176)   |               |              |              |              |            |
| OIML / European Approval <sup>4)</sup>    | Number, OIML / Europe        | R60/2000-NL1-12.55 / TC8077  |               |              |              |              |            |
|   | Class                        | C  |               |              |              |              |            |
|   | nmax                         | 3000   |               |              |              |              |            |
|   | Vmin                         | g  | 1 ; 2         | 2 ; 5        | 5 ; 10       | 10 ; 20      | 20 ; 50    |
|   | PLC                          | 0.7  |               |              |              |              |            |
|   | Humidity Symbol              | CH   |               |              |              |              |            |
|   | Min. dead load               | kg   | 0.1           |              |              |              |            |
|   | Z                            | 3000   |               |              |              |              |            |
|   | Barometric Pressure Effect   | None   |               |              |              |              |            |
|   | NTEP Approval <sup>4)</sup>  | Number   | 13-002        |              |              |              |            |
| Class                                     |                              | III S  |               |              |              |              |            |
| nmax                                      |                              | 5000   |               |              |              |              |            |
| Vmin                                      |                              | lb   | 0.002 ; 0.005 | 0.005 ; 0.01 | 0.01 ; 0.02  | 0.02 ; 0.05  | 0.05 ; 0.1 |
| Min. dead load                            |                              | lb   | 0.05          |              | 0.15         |              |            |
| ATEX Approval <sup>4)</sup>               | Number                       | DEKRA 13ATEX0045 / DEKRA 13ATEX0046  |               |              |              |              |            |
|   | Rating                       | II 2G Ex ib IIC T4 Gb / II 2D Ex ib IIIC T100°C Db<br>II 3G Ex ic IIC T4 Gc / II 3G Ex na IIC T4 Gc / II 3D Ex tc IIIC T100°C Dc |               |              |              |              |            |
|   | Entity Parameters            | Ui/Un = 20V, Ii = 600mA, Pi = 1.25W, Ci = 6nF, Li = 30µH   |               |              |              |              |            |
|   | Number, USA                  | 3005885  |               |              |              |              |            |
| Factory Mutual Approval <sup>4)</sup>     | Rating, USA                  | IS / I,II,III / 1 / ABCDEFG / T4<br>NI / I / 2 / ABCD / T6 ; S / II,III / 2 / FG / T6  |               |              |              |              |            |
|   | Entity Parameters            | Vmax = 20V, Imax = 600mA, Pi = 1.25W, Ci = 0, Li = 0   |               |              |              |              |            |
|   | System Drawing No, USA       | 30036645   |               |              |              |              |            |
|   | Recommended                  | V AC/DC  | 5~15          |              |              |              |            |
| Excitation Voltage                        | Max.                         | 20   |               |              |              |              |            |
|   | Excitation                   | Ω  | 1116 ± 20     |              |              |              |            |
| Terminal Resistance                       | Output                       | 1000 ± 3   |               |              |              |              |            |
|   | Insulation Resistance @50VDC | MΩ   | > 5000        |              |              |              |            |
| Breakdown Voltage                         | V AC                         | > 500  |               |              |              |              |            |
| Material                                  | Spring Element               | 17-4PH stainless steel   |               |              |              |              |            |
|   | Enclosure                    | 304 stainless steel  |               |              |              |              |            |
|   | Cable entry fitting          | 304 stainless steel  |               |              |              |              |            |
|   | Cable                        | PVC  |               |              |              |              |            |
| Protection                                | Type                         | sealed   |               |              |              |              |            |
|   | IP Rating                    | IP68, IP69K  |               |              |              |              |            |
|   | NEMA Rating                  | NEMA 6/6P  |               |              |              |              |            |
| Overload Protection                       |                              | No   |               |              |              |              |            |
| Load Limit                                | Safe                         | 150  |               |              |              |              |            |
|   | Ultimate                     | 300  |               |              |              |              |            |
| Safe Side Load                            | %R.C.                        | 100  |               |              |              |              |            |
| Safe Dynamic Load                         | %R.C.                        | 70   |               |              |              |              |            |
| Fatigue Life                              | cycles @R.C.                 | 1,000,000  |               |              |              |              |            |
| Direction of Loading                      |                              | Beam   |               |              |              |              |            |
| Deflection @ R.C., nominal                | mm (in)                      | 0.18 (0.007)   | 0.15 (0.006)  | 0.18 (0.007) | 0.18 (0.007) | 0.22 (0.009) |            |
| Weight, nominal                           | kg (lb)                      | 1.3 (3)  |               |              |              |              |            |
| Cable                                     | Length                       | m (ft)   |               |              |              |              |            |
|   | Diameter                     | mm (in)  |               |              |              |              |            |
| Mounting Screw                            | Grade                        | A4-70  |               |              |              |              |            |
|   | Size / thread                | mm   |               |              |              |              |            |
|   | Engaged Length               | mm (in)  |               |              |              |              |            |
|   | Torque, nominal              | N.m (ft-lb)  |               |              |              |              |            |
| Max Platter Size                          | cm x cm (in x in)            | 40 x 50 (15.7 x 19.7)  |               |              |              |              |            |
| Off Center Load Error @33%R.C.            | %A.L./cm (./in)              | 0.0044 (0.011)   |               |              |              |              |            |

<sup>1)</sup> Error due to the combined effect of non-linearity and hysteresis

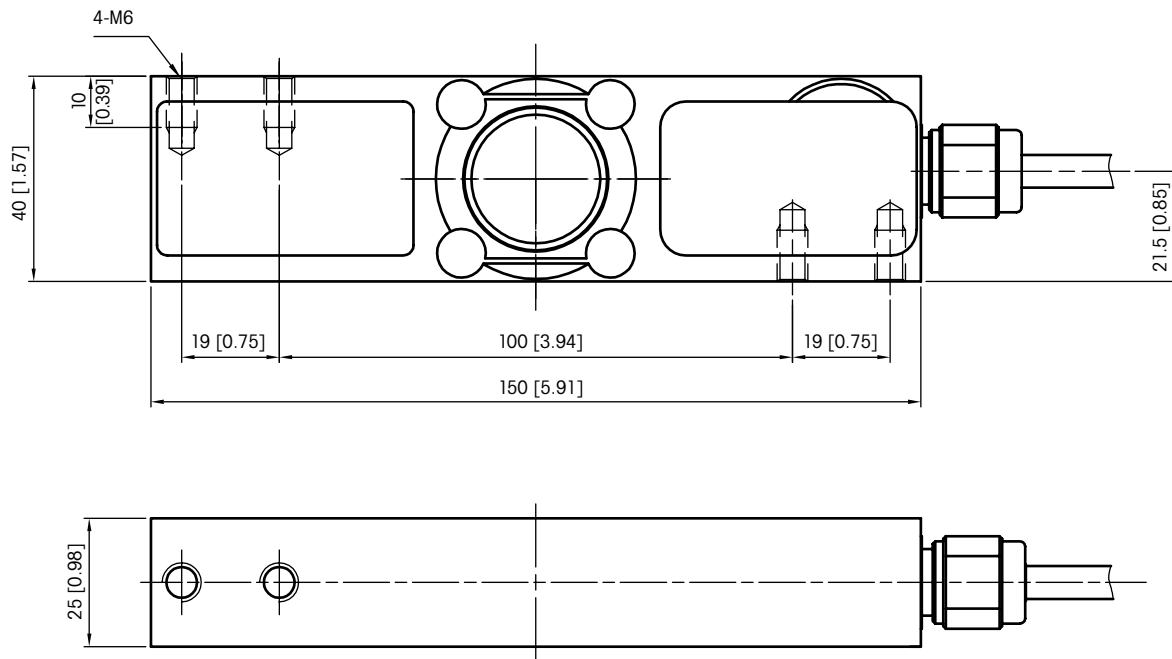
<sup>2)</sup> Typical values only. The sum of errors due to Combined Error and Temperature Effect on Sensitivity comply with the requirements of OIML R60 and NIST HB44.

<sup>3)</sup> A.L. = Applied Load

<sup>4)</sup> See certificate for complete information.



# SLP845 15–200 kg Load Cell Dimensional Drawings mm (in)



## SLP845 Load Cell Order Information

| Order Information |              | Item No., Load Cell |                 |                 |                 |                 |                 |
|-------------------|--------------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Rated Capacity    | Class        | Vmin, OIML (NTEP)   |                 |                 |                 |                 |                 |
|                   |              | 1g (0.002lb)        | 2g (0.005lb)    | 5g (0.01lb)     | 10g (0.02lb)    | 20g (0.05lb)    | 50g (0.1lb)     |
| 15kg / 33lb       | C3/III S n:5 | <b>72244433</b>     |                 |                 |                 |                 |                 |
|                   |              |                     | <b>72244437</b> |                 |                 |                 |                 |
|                   |              |                     | <b>72244429</b> |                 |                 |                 |                 |
| 22kg / 48lb       | C3/III S n:5 |                     |                 |                 |                 |                 |                 |
|                   |              |                     |                 | <b>72244431</b> |                 |                 |                 |
|                   |              |                     |                 | <b>72244426</b> |                 |                 |                 |
| 50kg / 110lb      | C3/III S n:5 |                     |                 |                 |                 |                 |                 |
|                   |              |                     |                 |                 | <b>72244428</b> |                 |                 |
|                   |              |                     |                 |                 | <b>72244423</b> |                 |                 |
| 100kg / 220lb     | C3/III S n:5 |                     |                 |                 |                 |                 |                 |
|                   |              |                     |                 |                 |                 | <b>72244425</b> |                 |
|                   |              |                     |                 |                 |                 | <b>72244420</b> |                 |
| 200kg / 441lb     | C3/III S n:5 |                     |                 |                 |                 |                 |                 |
|                   |              |                     |                 |                 |                 |                 | <b>72244422</b> |

Bolded entries are stocked

## SLP845 Load Cell Cable Colours

| Colour | Function      | Red           | -- Signal |
|--------|---------------|---------------|-----------|
| Green  | + Excitation  | Yellow        | + Sense   |
| Black  | -- Excitation | Blue          | -- Sense  |
| White  | + Signal      | Yellow (long) | Shield    |

## Full Connectivity

METTLER TOLEDO supplies various data communication interfaces that enable our sensors and instruments to communicate with your PLC, MES, or ERP systems.



## Weighing Electronics

METTLER TOLEDO offers a complete family of electronics from simple weighing to application solutions for filling, stock control, batching, formulation, counting, and checkweighing.



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Quality certificate ISO 9001  
Environment certificate ISO 14001

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