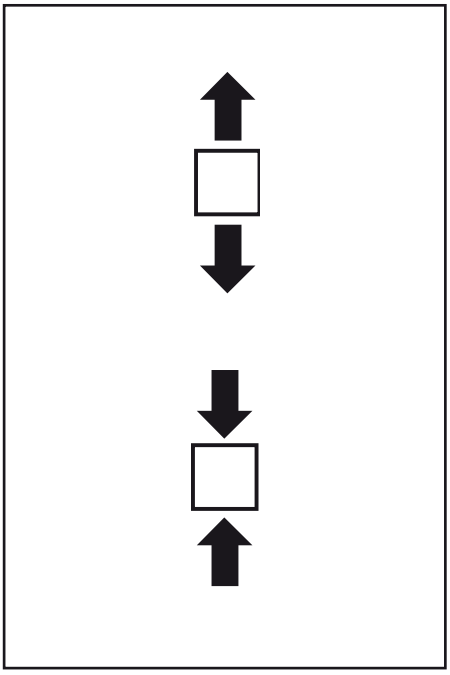
UTILCELL
CELULAS DE CARGA - LOAD CELLS

# MODELO 650

## 250kg ...7500kg

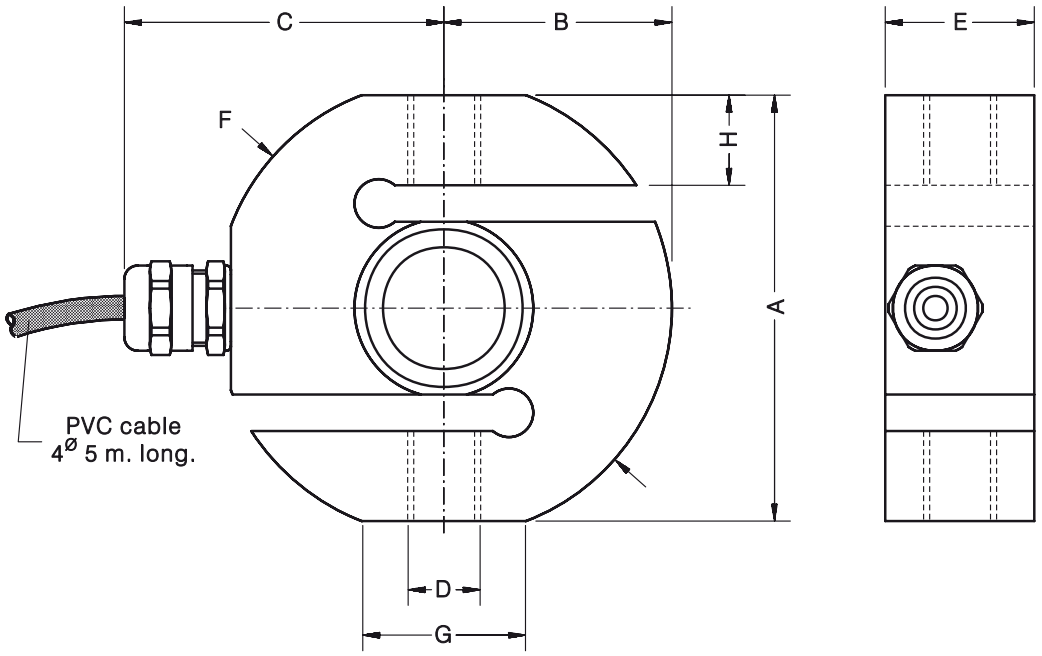


- Célula de carga de tracción/compresión
- Construcción en acero inoxidable
- Herméticamente soldada, protección IP 68 (EN 60529)
- 3000 divisiones O.I.M.L. R60 clase C *
- Disponible en versión ATEX (opcional) Zona 0-1-2 (gas) y 20-21-22 (polvo)
- Aplicaciones:
  - Tanques, Tolvas y Cintas pesadoras suspendidas de estructuras
  - Centrales de asfalto y hormigón
  - Medida de fuerza en maquinaria de ensayo
  - Conversión de básculas mecánicas a electrónicas
  - Pesaje aéreo

- Tension/compression load cell
- Stainless Steel construction
- Hermetically welded, protected IP 68 (EN 60529)
- 3000 divisions O.I.M.L. R60 class C *
- Available in ATEX version (optional) Zone 0-1-2 (gas) and 20-21-22 (dust)
- Applications:
  - Suspended weighing in Tanks, Hoppers and Belt Conveyor Scales
  - Asphalt and Concrete Plants
  - Force measurement in Test Equipment
  - Conversion from mechanical to electronic scales
  - Crane scales

| Modelo<br>Model | Carga nominal<br>Nominal capacity<br>Ln | Clase de precisión<br>Accuracy class<br>* n. OIML | División mínima<br>Minimum division<br>vmin | Carga de servicio<br>Service load<br>150 % Ln | Carga límite<br>Safe load<br>200 % Ln |
|---|---|---|---|---|---|
| 650 250 kg | 250 kg | 2000 | 34 g | 375 kg | 500 kg |
| 650 500 kg | 500 kg | 3000 | 50 g | 750 kg | 1000 kg |
| 650 1000 kg | 1000 kg | 3000 | 100 g | 1500 kg | 2000 kg |
| 650 2000 kg | 2000 kg | 3000 | 200 g | 3000 kg | 4000 kg |
| 650 5000 kg | 5000 kg | 3000 | 500 g | 7500 kg | 10000 kg |
| 650 7500 kg | 7500 kg | 3000 | 750 g | 11250 kg | 15000 kg |

# MODELO 650



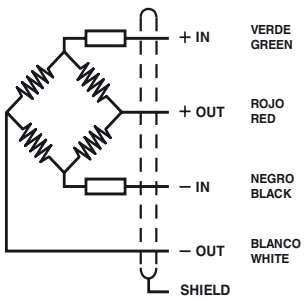

| Carga nominal Nominal load | A | B | C | D | E | FØ | G | H | Peso Transport Weight |
|---|---|---|---|---|---|---|---|---|---|
| 250-500 kg | 70 | 37.5 | 50 | M12x1.75 | 24.5 | 75 | 26.9 | 15 | 1 kg |
| 1-2 t | 95 | 50 | 60 | M20x1.5 | 30 | 100 | 31.2 | 26 | 2 kg |
| 5 t | 120 | 62.5 | 72.5 | M24x2 | 40 | 125 | 35 | 34 | 4 kg |
| 7.5 t | 120 | 62.5 | 72.5 | M24x2 | 56 | 125 | 35 | 34 | 5.5 kg |

Dimensiones en mm. *Dimensions in mm.*

| **ESPECIFICACIONES** | | | **SPECIFICATIONS** |
|---|---|---|---|
| Cargas nominales (Ln) | 250-500-1000-2000-5000-7500 | kg | Nominal capacities (Ln) |
| Clase de precisión | 3000 | n. OIML (2) | Accuracy class |
| Carga mínima<br>Carga de servicio<br>Cargas límite | 0<br>150<br>200 | %Ln<br>%Ln<br>%Ln | Minimum dead load<br>Service load<br>Safe load limit |
| Error combinado<br>Error repetibilidad | < ±0.017<br>< ±0.015 | %Sn (1) (2)<br>%Sn | Total error<br>Repeatability error |
| Efecto de la temperatura:<br>en el cero<br>en la sensibilidad | <br>< ±0.01<br>< ±0.006 | <br>%Sn/5°K<br>%Sn/5°K | Temperature effect:<br>on zero<br>on sensitivity |
| Error de fluencia (30 minutos) | < ±0.016 | %Sn (2) | Creep error (30 minutes) |
| Compensación de temperatura<br>Límites de temperatura | -10...+55<br>-40...+95 | °C<br>°C | Temperature compensation<br>Temperature limits |
| Sensibilidad nominal (Sn)<br>Tensión de alimentación nominal<br>Tensión de alimentación máxima<br>Resistencia de entrada<br>Resistencia de salida<br>Desequilibrio inicial<br>Resistencia de aislamiento | 2 ±0.1%<br>10<br>15<br>400 ±20<br>350 ±3<br>< ±2<br>> 5000 | mV/V<br>V<br>V<br>Ω<br>Ω<br>%Sn<br>MΩ | Nominal sensitivity (Sn)<br>Nominal input voltage<br>Maximum input voltage<br>Input impedance<br>Output impedance<br>No load output<br>Insulation resistance |
| Deformación máxima (a Ln) | < 0.5 | mm | Maximum deflection (at Ln) |

(1) Error combinado: No Linealidad e Histéresis / Total error: Non Linearity and Hysteresis
(2) Ln = 250 kg: 2000 n. OIML

CONEXION ELECTRICA
*ELECTRICAL CONNECTION:*




«CONVENIO SIGNOS SALIDA PARA TRACCIÓN»

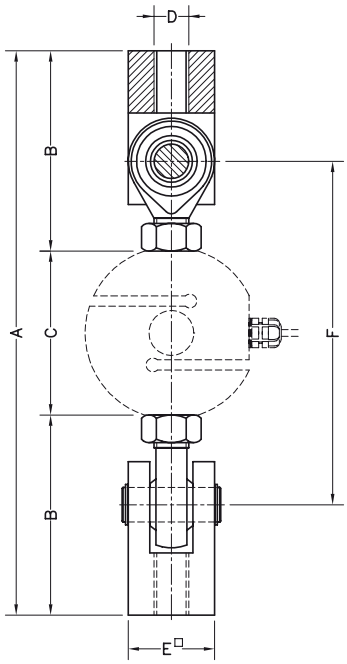
*«OUTPUT SIGNS FOR TENSION APPLICATION»*

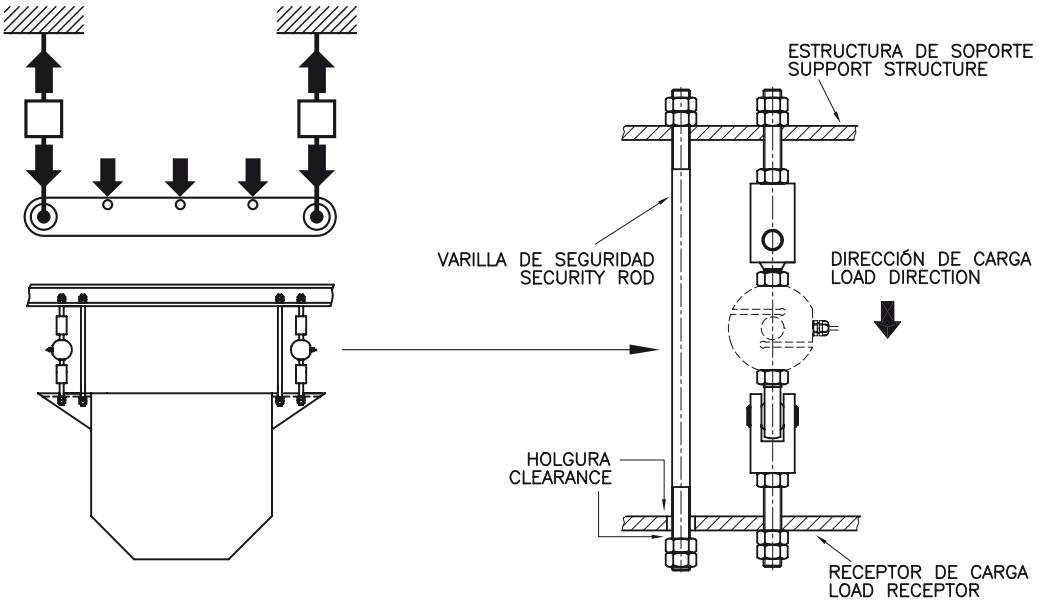
1428

UTILCELL
CELULAS DE CARGA - LOAD CELLS

# ACC. TE12x1.75
# ACC. TE20x1.5
# ACC. TE24x2

## ACCESORIO TRACCION PARA MOD. 650
## TENSION ACCESSORY FOR MODEL 650



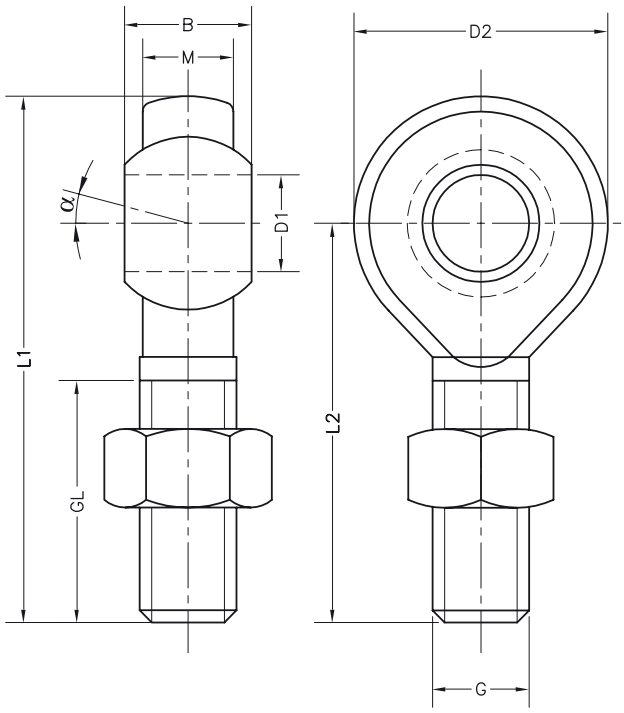

| Accesorio<br>Accessory | Carga nominal<br>Nominal load | A | B | C | D | E□ | F | Carga límite<br>Ultimate load | Peso transporte<br>Transport weight | Material |
|---|---|---|---|---|---|---|---|---|---|---|
| **TE12x1.75** | 250-500 kg | 236 | 83 | 70 | M12x1.75 | 35 | 148 | 2000 kg | 1.4 kg | Acero cincado<br>Steel zinc-plated |
| **TE20x1.5** | 1000-2000 kg | 327 | 116 | 95 | M20x2.5 | 50 | 199 | 5050 kg | 4.5 kg | |
| **TE24x2** | 5000-7500 kg | 398 | 139 | 120 | M24x3 | 60 | 246 | 8150 kg | 7.8 kg | |

Dimensiones en mm. *Dimensions in mm.*

UTILCELL
CELULAS DE CARGA - LOAD CELLS

# ACC. RO12x1.75
# ACC. RO20x1.5
# ACC. RO24x2

## ROTULAS PARA EL MODELO 650
## ROD ENDS FOR MODEL 650




- **Material: Acero cincado**
- **Cada accesorio RO contiene un juego de: 2 rótulas y 2 tuercas**

- **Material: Steel zinc-plated**
- **Each accessory RO includes a set of: 2 rod ends and 2 nuts**

| Dimensiones Accesorios **RO**/ ***RO*** Accessories Dimensions | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Accesorio Accesory | Capacidad/ Capacity (kg) | D2 | B | M | D1 | L1 | L2 | GL | G | α | F | Peso transp. Trans. weight |
| **RO12x1.75** | 250-500 | 32 | 16 | 12 | Ø12 | 70 | 54 | 33 | M12x1.75 | 13° | 148 | 0.2 kg |
| **RO20x1.5** | 1000-2000 | 50 | 25 | 18 | Ø20 | 103 | 78 | 47 | M20x1.5 | 15° | 199 | 0.8 kg |
| **RO24x2** | 5000-7500 | 64 | 20 | 17 | Ø25 | 126 | 94 | 53 | M24x2 | - | 246 | 1.3 kg |

Dimensiones en mm. *Dimensions in mm.*