

## Shear Beam Load Cell SK30X-5t with a Rated Load of 3 t ... 5 t



### Performance Features

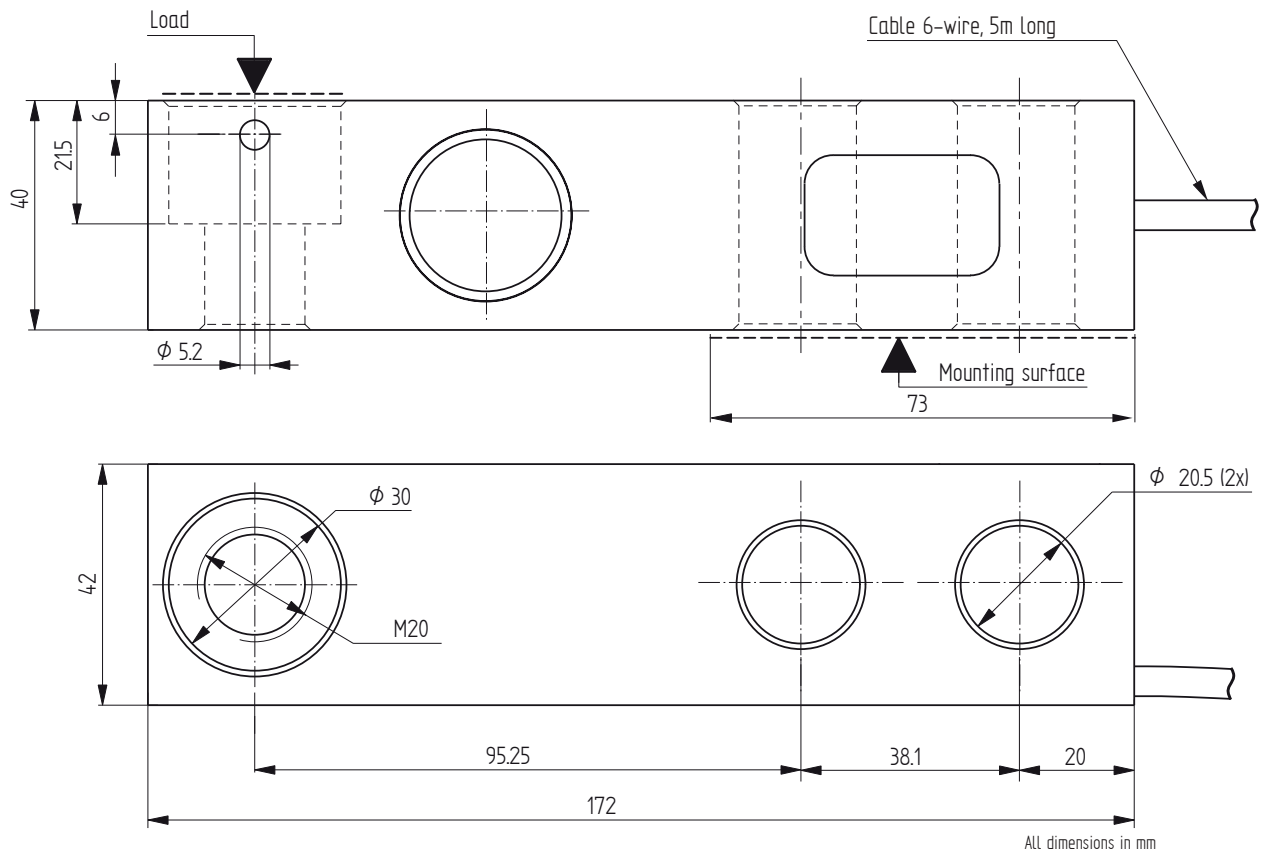
- Shear beam load cell made of stainless steel, hermetically welded with protection class IP68
- Up to 4000d OIML R60
- Specially designed for industrial platform scales
- 6-wire configuration
- Calibrated signal output for multi-load cells mounting
- ATEX 2014/34/EU version for hazardous area (option)

### Application

- Hoppers, tanks, mixers or conveyors
- Beverages and food
- Mining, metals and minerals
- Chemistry/Pharmaceuticals
- Waste management/recycling
- Packaging technology



## Dimensions in mm



### Warning

Shear beam load cell SK30X installation requires mounting hardware with a minimum hardness of HRC 53 and screws of class 12.9

| Article-No. | Version | Rated Load [kg] | n <sub>max</sub> [d OIML] | Weight [kg] |
|-------------|---------|-----------------|---------------------------|-------------|
| 111115      | C3 10e  | 3000            | 3000                      | 1.87        |
| 110328      | C3 10e  | 5000            | 3000                      | 1.87        |

## Connection Assignment

### Electrical Connection

| Function       | Wire Color |
|----------------|------------|
| Excitation (+) | Brown      |
| Signal (+)     | Yellow     |
| Signal (-)     | White      |
| Excitation (-) | Green      |
| Sensing (+)    | Gray       |
| Sensing (-)    | Pink       |

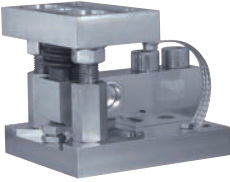
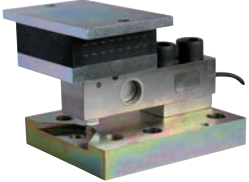
## Technical Data

| Type                                                          | SK30X 5T           |                 |
|---------------------------------------------------------------|--------------------|-----------------|
| Version                                                       |                    | C3 12e          |
| Rated load <b>E</b>                                           | kg                 | 3000; 5000      |
| Maximum load for approved weighing <b>E<sub>max</sub></b>     | kg                 | 3000; 5000      |
| Accuracy class OIML R60                                       |                    | C3              |
| Maximum numbers of load cell intervals <b>n<sub>max</sub></b> | d OIML             | 3000            |
| Minimum verification interval <b>v<sub>min</sub></b>          | kg                 | E/10000         |
| Creep division factor $Z = E_{max}/2 \times DR$               | -                  | 3000            |
| Combined error                                                | % E                | ±0.017          |
| Temperature coefficient of zero signal                        | % E/°C             | ±0.0014         |
| Temperature coefficient of characteristic value               | % E/°C             | ±0.0014         |
| Load creep <b>d<sub>cr, F</sub></b> in 30 min.                | % E                | ±0.024          |
| Zero balance                                                  | % E                | ±2.5            |
| Rated output at E <b>C<sub>nom</sub></b>                      | mV/V               | 2               |
| Rated range of excitation voltage <b>B<sub>U, nom</sub></b>   | V                  | 1 ... 15        |
| Input resistance <b>R<sub>e</sub></b>                         | Ω                  | 385 ±20         |
| Output resistance <b>R<sub>a</sub></b>                        | Ω                  | 350 ±5          |
| Insulation resistance <b>R<sub>is</sub></b>                   | MΩ/50V             | 5000            |
| Current Adjustment                                            | % E                | ±0.1            |
| Electrical connection                                         |                    | Cable, PVC, 5 m |
| Rated temperature range <b>B<sub>T, nom</sub></b>             | °C                 | -10 ... 40      |
| Operating temperature range <b>B<sub>T, G</sub></b>           | °C                 | -20 ... 60      |
| Limit load <b>E<sub>lim</sub></b>                             | % E <sub>max</sub> | 150             |
| Breaking load <b>E<sub>b</sub></b>                            | % E <sub>max</sub> | 200             |
| Tightening torque                                             | Nm                 | 80              |
| Level of protection                                           | EN 60529           | IP68            |
| Material                                                      |                    | Stainless steel |
| Weight                                                        | kg                 | 1.87            |

## Options

| Article-No. | Description                                                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 107798      | ATEX 2014/34/EU, IECEX:<br>ex II 1 G/D, Ex ia IIC T6 Ga, Ex ia IIIC T80 °C Da, IP6X, -20 °C < Ta < +60 °C (zones gaz 0/1/2, dust 20/21/22) |
| 115049      | ATEX 2014/34/EU, IECEX:<br>ex II 1 D, Ex ta IIIC T125 °C Da, IP6X, -20 °C < Ta < +60 °C (zones dust 20/21/22)                              |
| 115048      | ATEX 2014/34/EU, IECEX: ex II 3 G, Ex nA IIC T6 Gc, -20 °C < Ta < +60 °C (zone gaz 2)                                                      |
| -           | Marking FACTORY MUTUAL (FM):<br>I.S., CL I, II, III / DIV 1 / GP ABCDEFG<br>N.I., CL I, II, III / DIV 2 / GP ABCDEFG; NIFW                 |

## Accessories

| Height adjustable load device LFA                                                   | Height adjustable load device LFC/SK 5t                                             | Compression load kit Stabiflex-SK 5t                                                 | Compression load kit Isoflex 5t                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |

Further suitable accessories you can find on our homepage under <https://www.lorenz-messtechnik.de/english/products>