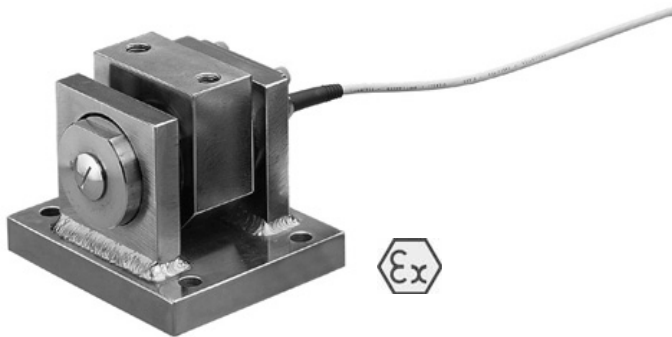


## Weigh Module



### FEATURES

- Suitable for load and level monitoring in storage tanks
- Rugged design
- ATEX approved
- Simple installation

### DESCRIPTION

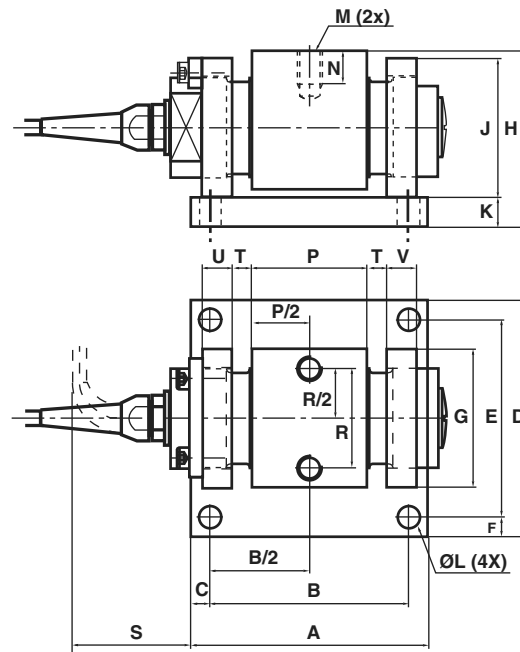
The KOM-1 weigh module has an accuracy, which makes it especially suitable for load and level monitoring in storage tanks.

The sensing element consists of three sections. The two outer sections constitute supports and rest on the built-in block, which is secured to the base. On the middle section, which is the load sensing part, there is a yoke to which the leg of the tank is secured. The sensor is efficiently locked so that it cannot twist in the built-in block.

### APPLICATIONS

- Process weighing
- Level monitoring

### OUTLINE DIMENSIONS

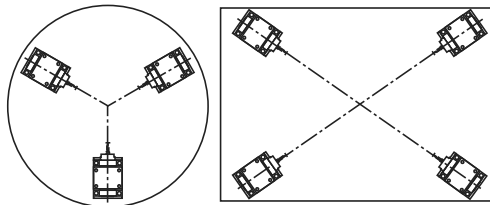


| RANGE kN | A   | B   | C  | D   | E   | F  | G   | H±1 | J   | K <sup>0</sup> <sub>-1</sub> | ØL |
|----------|-----|-----|----|-----|-----|----|-----|-----|-----|------------------------------|----|
| 10-20-50 | 120 | 100 | 10 | 120 | 100 | 10 | 70  | 89  | 70  | 15                           | 11 |
| 100      | 120 | 100 | 10 | 120 | 100 | 10 | 70  | 89  | 70  | 15                           | 11 |
| 200      | 140 | 90  | 25 | 170 | 140 | 15 | 100 | 135 | 100 | 24                           | 14 |

| RANGE kN | M   | N  | P  | R  | S  | T  | U <sup>0</sup> <sub>-1</sub> | V <sup>0</sup> <sub>-1</sub> |
|----------|-----|----|----|----|----|----|------------------------------|------------------------------|
| 10-20-50 | M12 | 18 | 33 | 50 | 47 | 10 | 15                           | 15                           |
| 100      | M12 | 18 | 48 | 50 | 60 | 10 | 20                           | 20                           |
| 200      | M16 | 28 | 48 | 70 | 50 | 10 | 30                           | 20                           |

**SPECIFICATIONS**

|                                           |                 |                                                                                                                                                                   |                |
|-------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Rated load (R.L.)                         |                 | 10, 20, 50, 100, 200                                                                                                                                              | kN             |
| Typical combined error (terminal)         |                 | 0.25                                                                                                                                                              | % of R.O.      |
| Repeatability                             |                 | 0.25                                                                                                                                                              | % of R.O.      |
| Overload                                  | safe*           | 100                                                                                                                                                               | % of R.L.      |
|                                           | ultimate*       | 200                                                                                                                                                               | % of R.L.      |
| Input voltage                             | recommended     | 10                                                                                                                                                                | V DC or AC     |
|                                           | maximum         | 18                                                                                                                                                                | V DC or AC     |
| Input resistance                          |                 | 350±5                                                                                                                                                             | ohm            |
| Output resistance                         |                 | 350±5                                                                                                                                                             | ohm            |
| Rated output (R.O.)                       |                 | 1                                                                                                                                                                 | mV/V           |
| Zero balance                              |                 | ±5                                                                                                                                                                | % of R.O.      |
| Tolerance of shunt calibration values     |                 | ±1                                                                                                                                                                | % of value**   |
| Temperature range                         |                 | -40 to +80 (+100)***                                                                                                                                              | °C             |
| Temperature effect                        | on output       | ±0.04                                                                                                                                                             | % of output/°C |
|                                           | on zero balance | ±0.04                                                                                                                                                             | % of R.O./°C   |
| Insulation resistance at 200V DC          |                 | >4                                                                                                                                                                | Gohm           |
| Material: Load Cell                       |                 | Stainless steel                                                                                                                                                   |                |
|                                           | Built in block  | Yellow chromate steel                                                                                                                                             |                |
| Electrical connection                     |                 | 5m shielded four conductor cable                                                                                                                                  | 10, 20, 50kN   |
|                                           |                 | 10m shielded four conductor cable                                                                                                                                 | 100, 200kN     |
| Degree of protection                      |                 | IP 67                                                                                                                                                             |                |
| * Referring to recommended loading case   |                 |                                                                                                                                                                   |                |
| ** See calibration sheet of the load cell |                 | ATEX certified versions for load cell KOSD-40 in weigh module KOM-1 for use in explosive atmospheres are available: II 1GD. EEx ia IIC T4 T <sub>amb</sub> = 60°C |                |
| *** -40 to +100°C on demand               |                 |                                                                                                                                                                   |                |

**INSTALLATION EXAMPLES**

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