

KR80 0.25t, 0.5t, 1t, 2t, 3.5t, 5t, 10t



Description

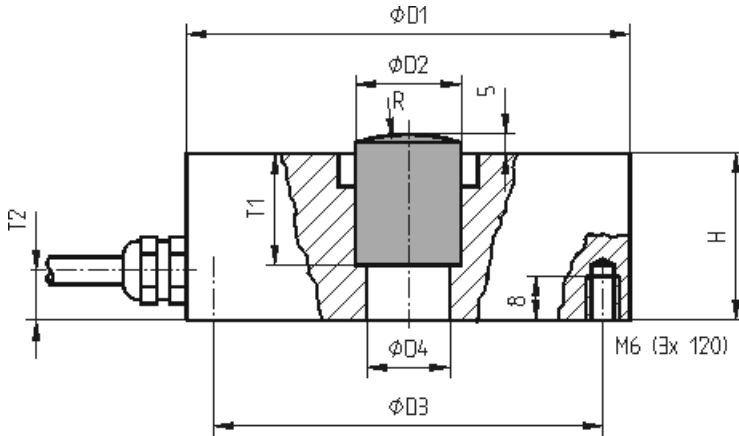
The load cell KR80 is a precision load cell in cylindrical design. It is hermetically sealed by means of welding and available in a calibratable design according to the European requirements OIML R-60 up to class C6. It stands out thanks to its particularly low measurement path of just 0.1mm.

The environmental protection is IP 66.

Force transmission is realised by a cylindrical load knob that has to be inserted into the hole $\varnothing 2$.

Optionally pendular bases for applications in weighing technology can be installed.

Dimensions



Technical Data

Force sensor

Type	Force sensor
Force direction	Tension / Compression
Force introduction	Inner thread
Operating force	150 %FS
Material	Stainless steel
Breaking force	300 %Fn

Electrical Data

Input resistance	1110 Ohm
Tolerance input resistance	50 Ohm
Output resistance	1025 Ohm
Tolerance output resistance	25 Ohm
Insulation resistance	>5x10 ⁹ Ohm
Zero signal	2 mV/V

Connection Data

Connection type	4 conductor open
Cable length	3 m

Temperature

Rated temperature range f	-10 ... 40 °C
Operating temperature range f	-30 ... 70 °C
Storage temperature range f	-50 ... 80 °C
Environmental protection	IP66









Pin Configuration

Symbol	Description	Wire colour
+Us	positive bridge supply	pink
-Us	negative bridge supply	grey
+Ud	positive bridge output	brown
-Ud	negative bridge output	white

*Pressure load: positive output signal.
Shield- transparent.*

accessories

	Description	Description
	Calibration Certificate kn/20/5	Factory calibration certificate for force to 20 kN in accordance with DIN EN ISO / IEC 17025 and ISO 9000 for test materials monitoring according to DIN ISO 9001: 2008 with 5 load levels and 3 series of measurements. Compressive Force
	Calibration Certificate kn/200/5	Factory calibration certificate for force to 200 kN in accordance with DIN EN ISO / IEC 17025 for test materials monitoring according to DIN ISO 9001: 2008 with 5 load levels and 3 series of measurements. Compressive Force
	GSV-1H	Measuring amplifier in top-hat rail housing for sensors with strain gauges. Analogue output -10V...+10V, limiting frequency 250Hz, 4 input sensitivities from 2.0mV/V.
	GSV-2TSD-DI	Measuring amplifier in desktop-housing for sensors with strain gauges. Serial port RS232, USB port, analogue output -5V...+5V, limiting frequency 260Hz, input sensitivity 3.5mV/V.
	GSV-3USB	Measuring amplifier in aluminum housing (IP54) for sensors with strain gauges. Limiting frequency 1250Hz, input sensitivity 2 / 3,5 / 10 mV/V.
	GSV-6K	analog amplifier pcb for sensors with strain gauges. Analog output configurable; sampling frequency is 10Hz ... 25kHz, input sensitivity adjustable 0.1 mV / V ... 8 mV / V