

## Load Cell KR80

Nominal load ranges 0.25t, 0.5t, 1t, 2t, 3.5t, 5t, 10t

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.

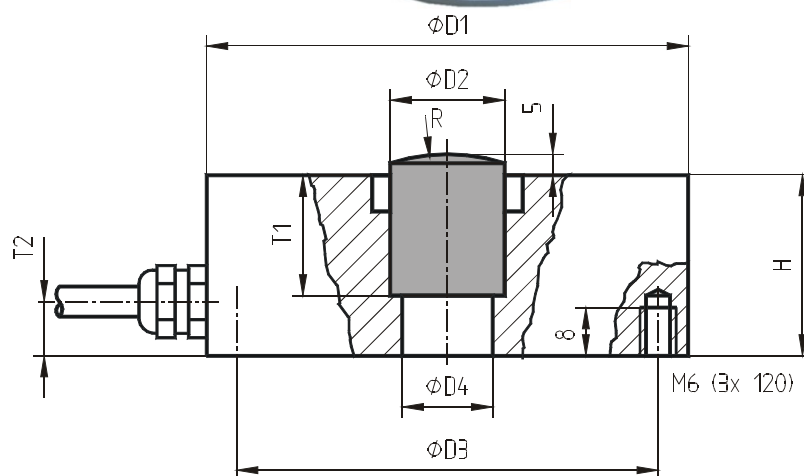
The environmental protection is IP 66.

Force transmission is realised by a cylindrical load knob that has to be inserted into the hole  $\varnothing D2$ .

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



### Abmessungen



	0,25 t ... 1 t	2 t ... 5 t	10 t
H	25	30	35
D1	80	80	95
D2	19	19	28.1
D3	70	70	83
D4	M10	15H7	24.9
T1	15	20	14.8
T2	9.5	8.5	10.0
R	80	100	100



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### Technical Data

Load cell	Compression		
Construction	Ring torsion		
Material	Stainless steel 1.4542		
Accuracy classes	C1 (0.03%), C3 (0.02%), C6 (0.01%)		
Nominal loads (F <sub>N</sub> )	250kg ... 10,000kg		
Accuracy class according to OIML R60	C1	C3	C6
Maximum scale division value	1000	3000	6000
Minimum scale division value	F <sub>N</sub> / 7000	F <sub>N</sub> / 10000	F <sub>N</sub> / 15000
Minimum utilization range	20	30	40
Combined error	< ±0.03	< ±0.023	< ±0.0115
Zero point return error (30 min)	< ±0.05	< ±0.025	< ±0.0083
Creep error (30 min)	< ±0.05	< ±0.0245	< ±0.0123
Temperature coeff. of the zero signal	< ±0.014	< ±0.007	< ±0.0045
Temperature coeff. of the rated output	< ±0.025	< ±0.005	< ±0.0025
Save Overload	150		% F <sub>N</sub>
Ultimate Overload	300		% F <sub>N</sub>
Maximum lateral load	100		% F <sub>N</sub>
Deflection at F <sub>N</sub>	0.1±0.02		mm
Nominal temperature range	-10...+40		°C
Operating temperature range	-30...+70		°C
Storage temperature range	-50...+80		°C
Rated Output (S <sub>N</sub> )	2.0 ± 0.1 (1.75±0.1 for 0.25t)		mV/V
Zero Balance	±2		% F <sub>N</sub>
Max. supply voltage	18		V
Input resistance	1110 ± 50		Ohm
Output resistance	1025 ± 25		Ohm
Insulation resistance	> 5 · 10 <sup>9</sup>		Ohm
Connection, 4 conductor open	3 (5 from 2t)		m

### Pin configuration

+U <sub>s</sub>	positive bridge supply	pink		
-U <sub>s</sub>	negative bridge supply	gray		shield: transparent
+U <sub>D</sub>	positive bridge output	brown		
-U <sub>D</sub>	negative bridge output	white		