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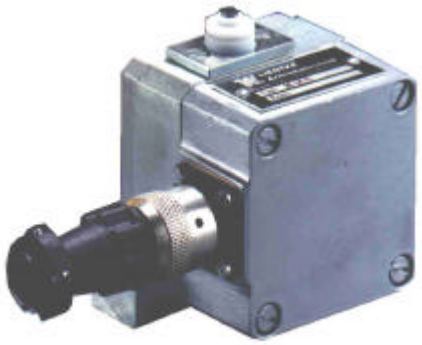
Load cells

Load cells are utilized everywhere where forces or loads are required to display or feedback the actual value into control loops.



The load cell is a measuring transducer and serves to capture and measure pressure forces up to 2000 N. The pressure force must act vertically on the measuring sensor. The measuring chain consists of the load cell, a compact, mechanical component with low dimensions, safe overload protection, jumper connections and high sensitivity as well as an electronic measuring amplifier. The load cell can be installed in any position and is therefore suited for multipurpose applications. The force measuring is based on the transformation of the mechanical measured quantity via strain gauges – full-bridge circuit into a proportional electrical output signal.

Technical data

measuring range	1:20
repeating accuracy	± 1%
rated voltage	5V
max. voltage	10V
measuring signal at 5V and rated power	approx. 6.5 mV
impedance of the DMS-bridge	350 Ω
temperature coefficient	2µV/K
operating temperature	-10..+80°C
weight with plug	620g
round connector w. 4-poles	UTG 10-4

Load cell	KM2	KM4	KM8
rated measuring force	100N	500N	2000N
overloadable up to	1000N	5000N	20000N