

Data sheet for Load Cells

S-Beam Load Cells with Electronics

Series KT1403



- S-beam with integrated digital transducer
- Strain gauge principle
- Aluminium alloy
- Output 0..10 V, 4..20 mA @24 VSUP
- Force transmission via M8-thread for 50 N .. 1 kN
- Easy to install, stable and reliable

Series KT1403 force transducer is a all-purpose S-beam load cell. Suitable for batching systems, package systems, etc.

Data Load Cell

Rated force	50N, 100N, 200N, 500N, 1kN
Rated characteristic value 2410 / 2442	10 V / 20 mA @ rated force
Relative error of characteristic value	≤ 1 % of rated output
Relative repeatability error	≤ 0.03 % of rated output
Relative reversibility error	≤ 0.03 % of rated output
Relative linearity error	≤ 0.1 % of rated output
Reference straight line	≤ 0.03 % of rated output
Relative deviation of zero signal	≤ 3 % of rated output
Rated displacement	≤ 0.3 mm
Input resistance	410 ±5Ω
Output resistance	350 ±3 Ω
Insulation resistance	≥ 5 GΩ @ 50 VDC
Maximum operating force	≤ 150 % of rated force
Rated range of excitation voltage	24 VDC
Operating range of excitation voltage	12 - 36 VDC
Rated temperature range	-10 °C..+40 °C
Operating temperature range	-10 °C..+70 °C
Protection	IP30
Temperature effect on characteristic value	≤ 0.02 % of output / 10 K
Temperature effect on zero signal	≤ 0.02 % of rated output / 10 K
Creep under load	≤ 0.03 % of rated output
Cable dimension	3 x AWG28; shielded
Cable length from body	ca. 2.75 m
Body material	Aluminium alloy

Terms according to guideline VDI / VDE / DKD 2638

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Order code

Description

Selection: standard=black/bold, possible options=grey/cursive

Series:	KT1403				
Connecting cable: Cable length 2.75 m		K			
Rated force: 50 N 100 N 200 N 500 N 1 kN			50N 100N 200N 500N 1kN		
Electronics: 24 VSUP 0..10 V Output 24 VSUP 4..20 mA Output				2410 2442	
Direction of force: Tension Pressure					Z D

For higher quantities or on-going demand, additional options are available as described below on request

For Example: Attach cable assemblies with or without connectors, output signals with PWM or SPI and much more.

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Drawing

