

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
- Test protocol available

Application examples:

Measurement of forces in assembly processes in automation, control of motion sequences in handling systems. Suitable for batching and packaging systems.

Data Load Cell

Rated force ($F_{nom.}$)	50N, 100N, 200N, 500N, 1kN
Maximum operation force	$\leq 150 \% F_{nom.}$
Output signal options	0...10 V / 4...20 mA
Rated supply voltage	24 VDC
Operating range of supply voltage	12 - 36 VDC
Relative linearity error	$\leq 0,5 \% F_{nom.}$
Hysteresis	$\leq 0,05 \% F_{nom.}$
Relative repeatability error	$\leq 0,05 \% F_{nom.}$
Relative deviation of zero signal	$\leq 1,0 \% F_{nom.}$
Relative deviation of signal @ $F_{nom.}$	$\leq 1,0 \%$
Relative creep (30 min.)	$\leq 0.05 \% F_{nom.}$
Rated displacement @ $F_{nom.}$	$\leq 0.3 \text{ mm}$
Rated temperature range	-10 °C..+40 °C
Operating temperature range	-10 °C..+70 °C
Temperature effect on characteristic value	$\leq 0.05 \% F_{nom.} / 10 \text{ K}$
Temperature effect on zero signal	$\leq 0.05 \% F_{nom.} / 10 \text{ K}$
Insulation resistance	$\geq 5 \text{ G}\Omega @ 50 \text{ VDC}$
Protection	IP30
Cable dimension	3 x AWG28; shielded (shield connected to body)
Cable length from body	ca. 2.75 m
Body material	Aluminium alloy

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Order code

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

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

For example:

- modified cable with or without connectors
- customer specific calibration range
- modified mounting holes or threads

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Drawing

