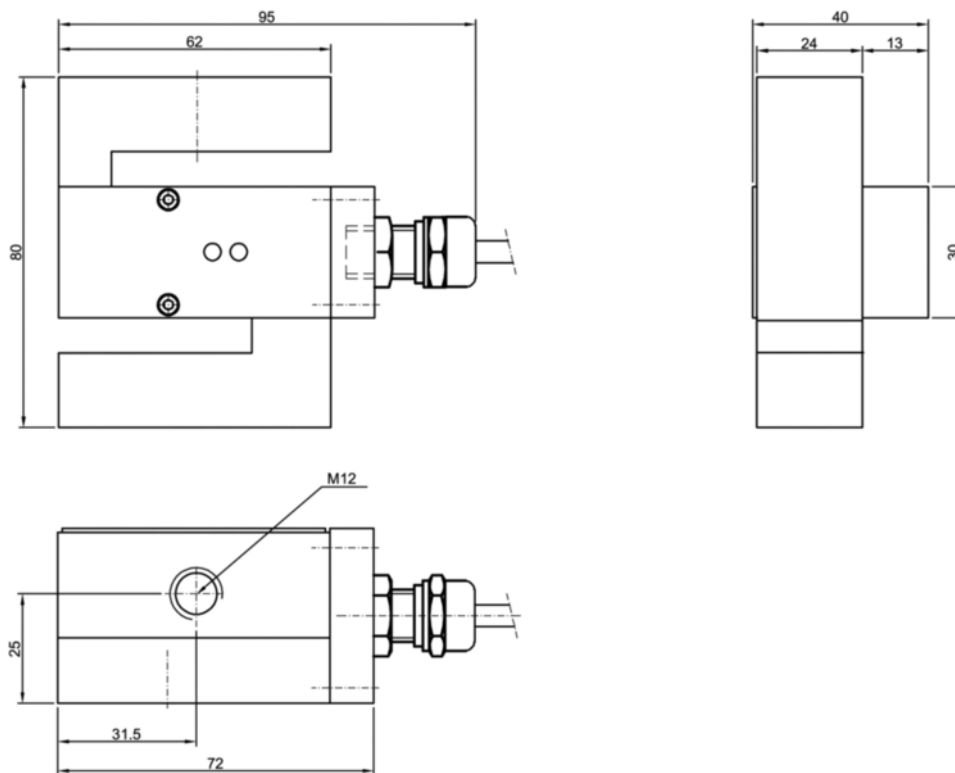


Series KM1501 / KT1501

- Capacity from 0...1kN to 0...10kN
- Calibration either in tension or compression
- Optionally as loadcell only (KM1501) or with integrated amplifier (KT1501)
- Calibration either in N or kg, calibration protocol included
- Loadcell Aluminium
- Protection class IP64



Dimensional Drawing



Series KM1501 / KT1501

Technical Data	KM1501	KT1501
Capacity (0 to ...)	1; 2; 5; 10 kN	
Operating Overload	120 % F.S.	
Safe Overload	150 % F.S.	
Ultimate Overload	> 200 % F.S.	
Rated Output	2 mV/V	-
Rated Output Tolerance	10 % F.S.	-
Zero Balance	1 % F.S.	0,15 % F.S.
Non-Linearity	0,05 % F.S.	0,05 % F.S.
Hysteresis	0,1 % F.S.	0,1 % F.S.
Creep (30 min.)	0,05 % F.S.	0,05 % F.S.
Total Error *	0,15 % F.S.	0,15 % F.S.
Non-Repeatability	0,04 % F.S.	0,04 % F.S.
Temp.Effect on Zero	0,05 % F.S./10K	0,12 % F.S./10K
Temp.Effect on Output	0,05 % F.S./10K	0,16 % F.S./10K
% F.S./10K	50 % F.S.	
Resonance Frequency	2 kHz	
Fullscale Deflection	≈ 0,2 mm	
Limiting Lateral Load	50 % F.S.	
Legend:	*) Hysteresis included All above values in %F.S. < = ± values	

Mechanical Data	
Measuring Method	Foil Strain Gage Full Bridge
Material Loadcell	Aluminium Alloy

Ambient Conditions	KM1501	KT1501
Compensated Temperature	-10 ... +50°C	0 ... +50°C
Operating Temperature	-30 ... +80°C	0 ... +70°C
Storage Temperature	-20 ... +80°C	-20 ... +80°C
Protection Class	IP 64	IP 64

Electrical Data	KM1501	KT1501
Input Impedance	415 ± 15 Ω	-
Output Impedance	350 ± 5 Ω	-
Insulation	> 5000 MΩ	> 5000 MΩ
Recommended Excitation	10 VDC typ. / 15 VDC max.	24 VDC
Cable Size	5-wire shielded, 2m	

Series KM1501 / KT1501

Signal Versions

	Supply	Signal
0000 without amplifier	10 V	20 mV \pm 20%
2410 built in amplifier	24 V	0 ... 10 V
2442 built in amplifier	24 V	4 ... 20 mA

Electrical Connection

Wiring	0000	2410 / 2442
black	Excitation -	Excitation -
red	Excitation +	24 V
brown	Signal +	Signal +
yellow	Signal -	Signal -
orange	n.c.	n.c.
Shield	on housing	on housing

Ordering Code

Series	Capacity	Connection	Amplifier	Force Direction
KM1501	1KN	K	0000 (KM1501)	D
KT1501	2KN		2410 (KT1501)	Z *
	5KN		2442 (KT1501)*	
	10KN			

Accessories

External Amplifiers

- EMA3-DMS / EMA3-2DMS
- IPG-DMS / IPG-2DMS
- SI-DMS
- IMA2-DMS

Displays

- DH28-DMS
- Modig

short-term stock types can be found on: <http://www.megatron.de/en/stocklists/load-cells/lagerliste.html>

bold print = standard option

(*) = on request available for projects

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