

KAD-T Load Cell

Applications

- For measuring tensile and compressive forces
- Suitable for platform scales
- Shear beam

Features

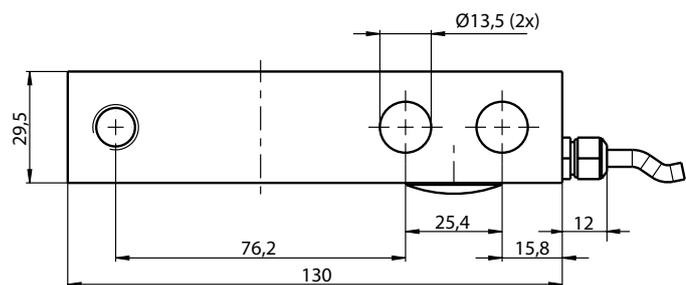
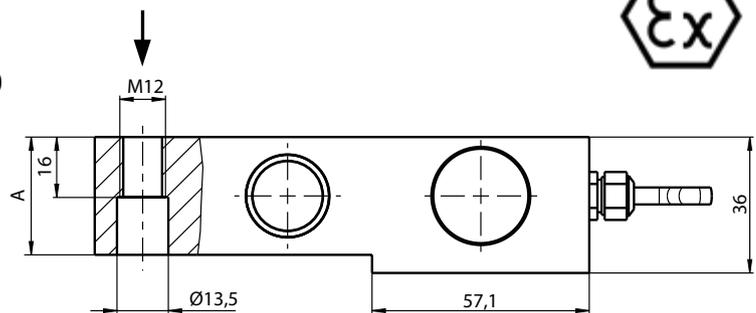
- 0.5t up to 2t
- Accuracy class C3 according OIML-R 60
- Made from stainless steel
- Rugged design
- Hermetically sealed enclosure (IP 67)
- 6-wire configuration

Option

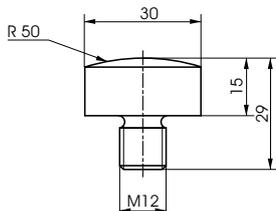
- ATEX-Certificate

Dimensions (mm)

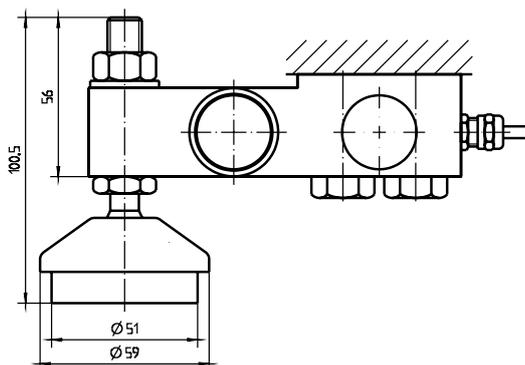
Rated Load	A (mm)	Weight
0.5 t	31.3	1 kg
1 t	31.2	1 kg
2 t	33.6	1 kg



Appliances for Installation and Mounting

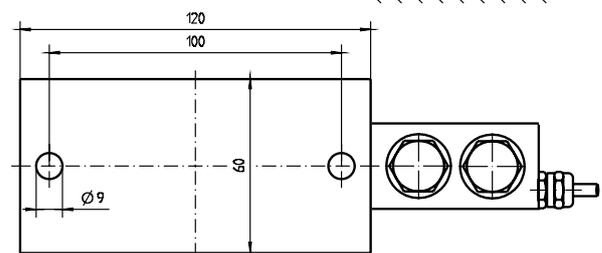
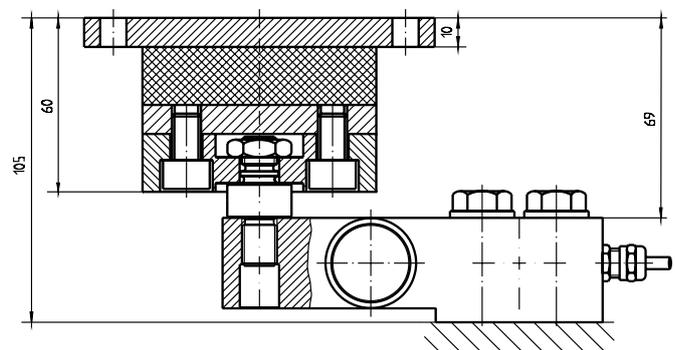


Load button XM 019



Levelling pad XKM 110

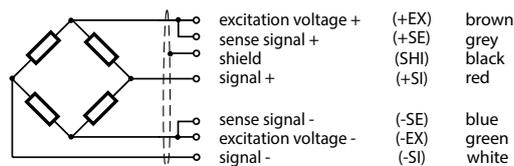
Elastomere bearing XKM 050.05



KAD-T/1t/C1

Wiring Code

Cable length 3m



Compressive load is a positive change of signal.

Specifications

Accuracy Class	% F _{nom}	C1	C2
Rated load (E _{max})	t	0.5/ 1/ 2	
Maximum operating load (E _u)	% E _{max}	150	
Breaking load (E _d)	% E _{max}	> 300	
Transverse load limit (E _{iq})	% E _{max}	100	
Rated characteristic value (C _n)	mV/V	2.000 ± 0.002	
Relative deviation of zero signal	%	≤ 1	
Reference excitation voltage (U _{ref})	VDC	10	
Input resistance (R _{LC})	Ω	380 ± 30	
Output resistance (R _O)	Ω	352 ± 1.5	
Insulation resistance (R _{IS})	Ω	> 5 x 10 ⁹	
Relative linearity error (d _{Lin})	%	≤ 0.030	≤ 0.021
Relative reversibility error (d _{hy})	%	≤ 0.030	≤ 0.010
Temperature effect on zero signal (TK _{S0})	%/10K	≤ 0.025	≤ 0.008
Temperature effect on characteristic value (TK _c)	%/10K	≤ 0.017	≤ 0.008
Relative creep over 30 minutes (d _{cr})	%	≤ 0.49	≤ 0.024
Reference temperature (T _{ref})	°C	+23	
Rated temperature range (B _T)	°C	-10 ... +40	
Operating temperature range (B _{Tu})	°C	-30 ... +70	
Storage temperature range (B _{Tl})	°C	-40 ... +70	
Environmental protection (EN 60529)		IP 67	

All data according VDI/VDE/DKD 2637

Order Example

Type Code	Description
KAD-T/1t/C1	Load cell 1t with accuracy class C1
	Accuracy class
	Rated load
	Model

Accessoires / Options

	Type Code	Description
Load button	XKM 019	K12-50 for 0.5t up to 2t
Elastomere bearing	XKM 050.05	for 0.5 up to 2t
Levelling pad	XKM 110	D60 (swivelling) pad
ATEX-Certificate	KAD-T-EX	for 5kN, 10kN, 20kN. Please note ATEX datasheet!