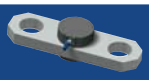
fSENS KMD – Load Cells

fSENS ZKA – Tensile Load Cells

Standardized KMD Load Cells

The extremely robust fSENS KMD force transducers are available in standard versions for a variety of load ranges and safety requirements.

- Compact and robust design
- Adaptable to any application
- Modular structure: steel bushing, ball bearings of different diameters
- Interfaces: 4...20 mA or CANopen

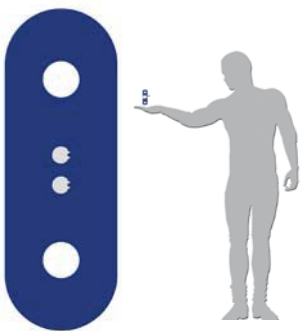
	Dimensions (L x W x H)	Double Safety (L)		Triple Safety (K)	
1	266 x 65 x 17 [mm]	70-100 kN	(7-10t)	30-60 kN	(3-6t)
2	340 x 90 x 21 [mm]	140-200 kN	(14-20t)	70-120 kN	(7-12t)
3	420 x 120 x 38 [mm]	260-400 kN	(26-40t)	150-250 kN	(15-25t)
4	480 x 150 x 75 [mm]	650-900 kN	(65-90t)	300-600 kN	(30-60t)
5	590 x 160 x 85 [mm]	1100-1650 kN	(110-165t)	700-1000 kN	(70-100t)
6	690 x 190 x 90 [mm]	1700-2400 kN	(170-240t)	1100-1500 kN	(110-150t)

Standardized fSENS KMD Load Cells

Customized KMD Load Cells and ZKA Tensile Load Cells

Hirschmann MCS develops and supplies KMD load cells in various designs and customer-specific versions.

- For measurement ranges <7 t and >240 t
- Individual mounting requirements
- Individually adapted for any installation situation
- Alternative materials for higher corrosion resistance
- They can be equipped with:
  - different interfaces
  - optional mechanical design (forks, bushings, or bearings)



Load Cell with bearing on one side only

Tensile Load Cell with spherical plain bearings

Technical Specifications

Description	fSENS KMD / ZKA
Temperature range	-40°C to +80°C***
Protection class	IP66/67 (IEC60529)
Operating voltage	10 to 30 V
Current consumption	< 50 mA (incl. amplifier)
Output signal	4...20 mA, CANopen, 2.5 to 7.5 V DC
Temperature drift	0.1 %/10°K
Linearity* (typical)	< 0.3 % FS
Hysteresis* (typical)	< 0.5 % FS
Connector*	M12 or CANNON
Sensor material	Stainless steel (chromium ratio > 12 %)
Preload*	150 % of nominal load
Safety margin against yielding*	> 200 % (300 %) of nominal load
Safety margin against breakage**	> 350 % (500 %) of nominal load
Support apertures	Bearings and bushings

* Other values and types are available on request
** Depending on material
*** Surface temperature