Z6R...

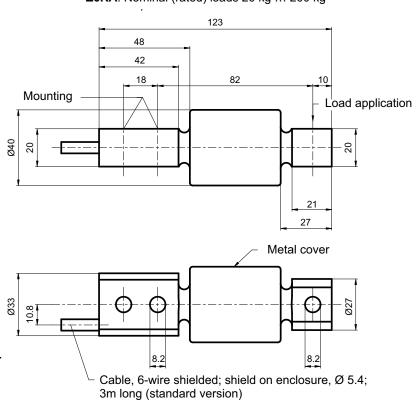
Load cell

Special features

- Nominal (rated) loads: 20 kg ... 200 kg
- Welded-on robust cover
- Load cells made of rust-resistant materials
- Easy to clean
- Same dimensions like Z6F
- Verifiable up to 3000 divisions, test report as per OIML R60
- Six-wire circuit
- Optimized for parallel connection
- Meets EMC requirements as per EN 45501:2015
- Options:
 - Ex-protection designs as per ATEX and IECEx

Dimensions (in mm; 1 mm = 0.03937 inches)

26RC3 50k



Z6RA: Nominal (rated) loads 20 kg ... 200 kg



Specifications

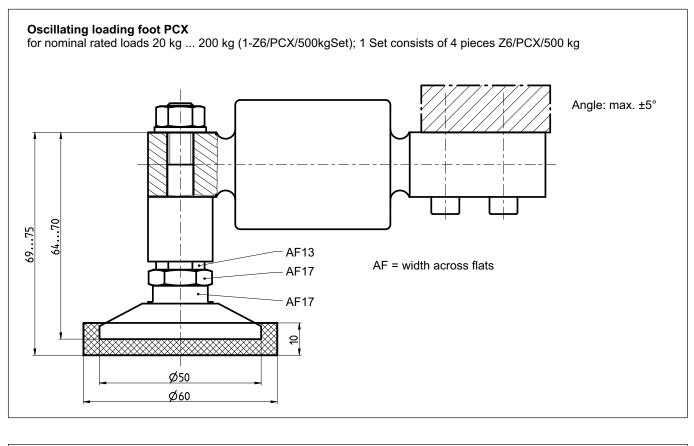
Туре				Z6R				
Accuracy class to OIML R 60		D1		C3				
Number of scale intervals (n _{LC})		1000		30	3000			
Nominal (rated) load (E _{max})	kg	20; 50; 100; 200						
Minimum scale division (v _{min})	% of E _{max}	0.0360 0.0090		090				
Nominal (rated) sensitivity (C _n)	mV/V	2						
Sensitivity tolerance with load appl. in spec. direction	%	±0.1 ±0.0		.05				
Temperature coefficient of sensitivity (TC _S)1 ⁾	% of	± 0.0500		±0.0080				
Temperature coefficient of zero signal (TK ₀)	C _n /10 K	±0.0500		±0.0125				
Relative reversibility error (d _{hy})1 ⁾	% of C _n	±0.0500		± 0.0170				
Non linearity (d _{lin}) ¹⁾		± 0.0500		±0.0180				
Load creep (d _{DR}) in 30 min.		± 0.0490		± 0.0166				
Input resistance (R _{LC})	Ω		350480					
Output resistance (R ₀)		356	±0.2	356 =	±0.12			
Reference voltage (U _{ref})	V	5						
Nominal supply voltage range (B _u)		0.512						
Insulation resistance (R _{is})	GΩ	> 5						
Nominal ambient temperature range (B _T)	°C	-10+40						
Operating temperature range (B _{tu})		-30+70						
Storage temperature range (B _{tl})		-50+85						
Limit load (E _L)	% of E _{max}	150						
Breaking load (E _d)		≥300						
Nominal (rated) load	kg	20	50	100	200			
Relative permissible oscillatory stress	% of E _{max}	70						
Nominal (rated) displacement (s _{nom}) approx.	mm	0.2						
Weight, (G) approx.	kg	0.6						
Degree of protection (IP) as per EN60529 (IEC529)		IP68 (tougher test conditions: 2 m water column; 1000 h) / IP69K						
Material: Measuring body		Stainless steel ²⁾						
Cover		Stainless steel ²⁾						
Cable inlet gland		Stainless steel / Viton [®]						
Cable sheath		PVC						

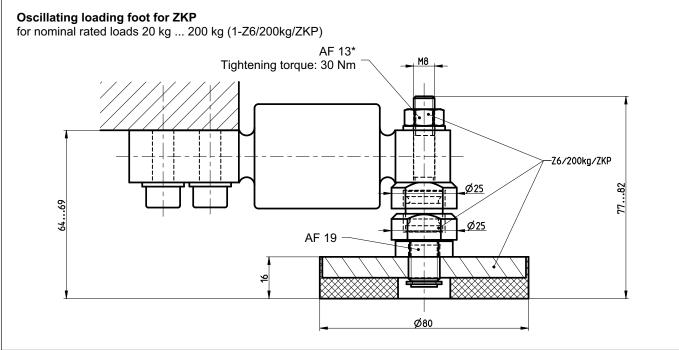
¹⁾ The values for linearity deviation, relative reversibility error and temperature effect on sensitivity are typical values. The sum of these values is within the cumulative error limits laid down by OIML R60.
²⁾ As per EN 10088-1

Cable assignment (6-wire configuration)		(gray) (black)	Sense lead (-) Excitation voltage (-)
With this cable assignment, the output		(white)	Measurement signal (+)
voltage at the measuring amplifier is positive when the transducer is loaded.		(blue) (green)	Excitation voltage (+) Sense lead (+)
		(red)	Measurement signal (-)
	<u> </u>	(stranded wire)	Cable shield connected to enclosure ground

Installation aids, not included in scope of delivery (Dimensions in mm; 1 mm = 0.03937 inches)

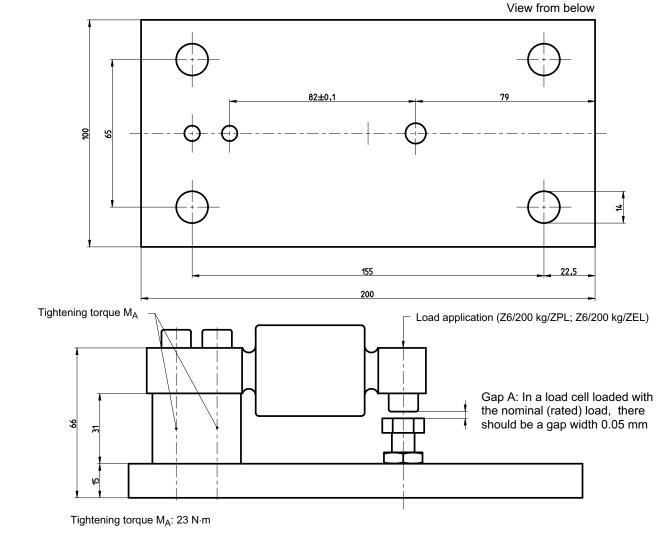
All installation aids are made of non-rusting material. The rubber parts of the ZEL are made of chloroprene rubber.

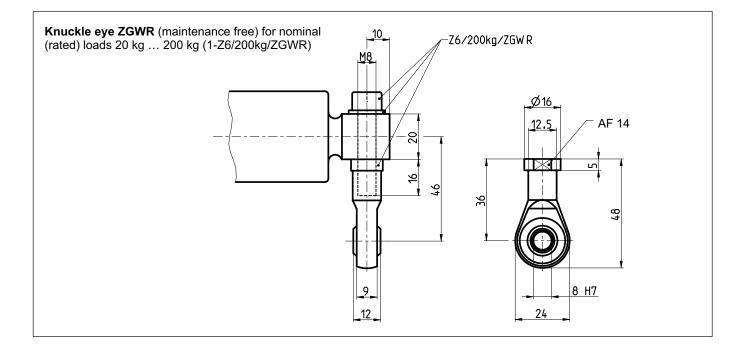


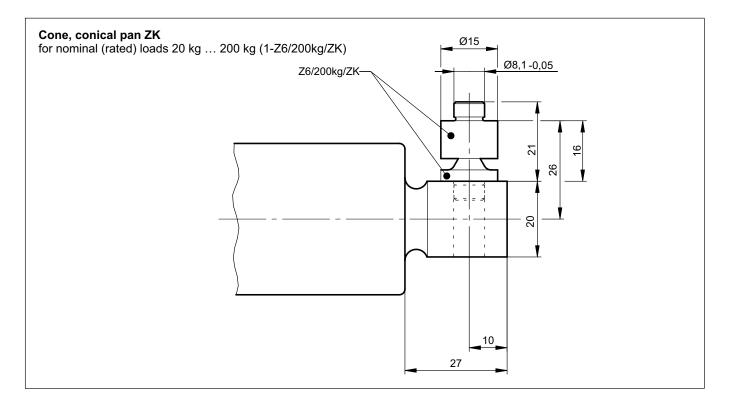


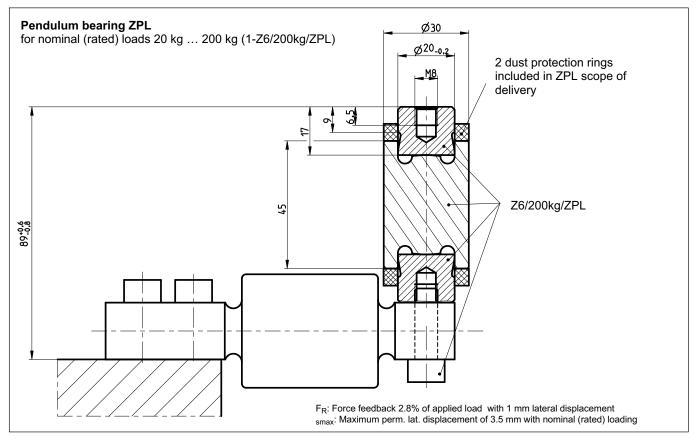
Base plate / Mounting set

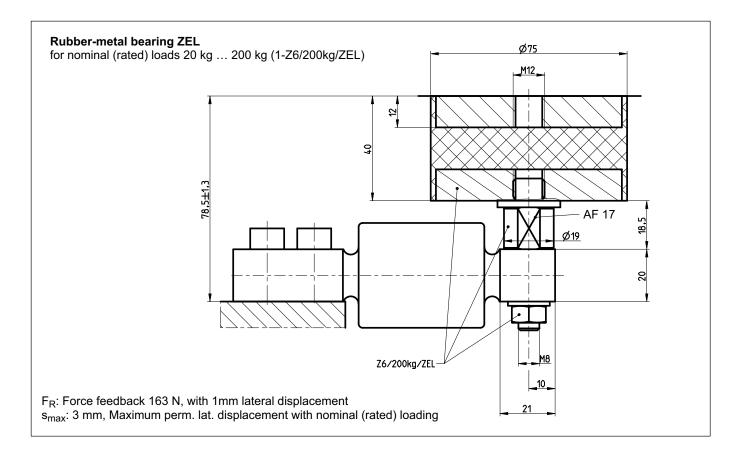
for nominal (rated) loads 20 kg ... 200 kg (1-Z6/ZPU/200kg)



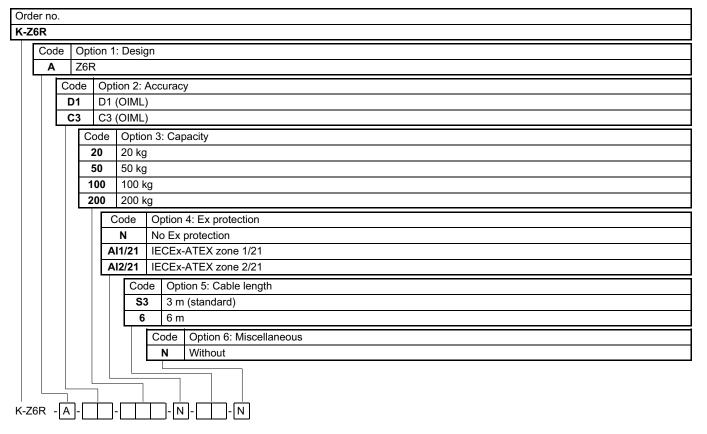








Z6R Load cells, optional versions



Options

Ex protection versions per IECEx and ATEX

AI1/21 IECEx+ATEX zone 1/21 intrinsically safe, II 2G Ex ia IIC T6/T4 Gb, II 2D Ex ia IIIC T125°C Db *

AI2/21** IECEx+ATEX zone 2/21 not intrinsically safe, II 3G Ex nA IIC T6/T4 Gc, II 2D Ex tb IIIC T125°C Db *

* with EU type examination certificate (BVS13ATEX E 108 X) and IECEx Certificate of Conformity (IECEx BVS 13.0109 X)

** IECEx Zone 2/21 includes option ATEX2/22 and also offers the additional customer benefit of usage with conductive dust as well.

HBI

Subject to modifications.

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