

Technical data

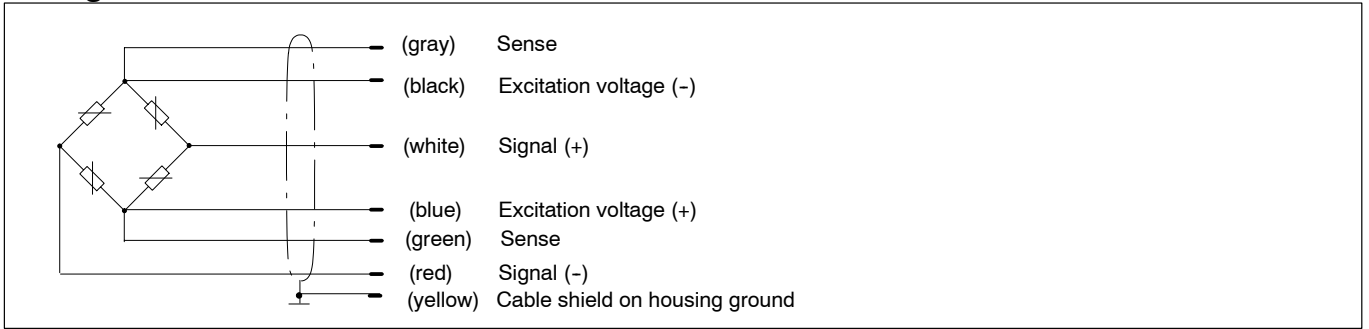
Type		C2	
Accuracy class		0.2	0.1
Max. capacity	kg t	50 -	100, 200, 500 1, 2, 5, 10, 20, 50
Sensitivity (C _n)	mV/V	2	
Tolerance on sensitivity	%	<±0.20	
Temperature effect on sensitivity (TK _C)			
in the nominal temperature range	%/10K	<±0.05	
in the service temperature range	%/10K	<±0.10	
Temperature effect on zero balance (TK ₀)			
in the nominal temperature range	%/10K	<±0.05	
in the service temperature range	%/10K	<±0.10	
Hysteresis error (d _{hy})	%	<±0.15	
Non-linearity (d _{lin})	%	<±0.20	<±0.10
Creep (d _{DR}) over 30 min.	%	<±0.06	
Input resistance (R _{LC})	Ω	340...450	
Output resistance (R ₀)	Ω	356±0.2	
Reference excitation voltage (U _{ref})	V	5	
Nominal range of excitation voltage (B _U)	V	0.5...10	0.5...12
Insulation resistance (R _{is})	GΩ	>5	
Nominal temperature range (B _T)	°C [°F]	-10...+40 [14...104]	
Service temperature range (B _{tu})	°C [°F]	-30...+85 [-22...185] (-30...+120) ¹⁾ [-22...248] ¹⁾	
Storage temperature range (B _{tl})	°C [°F]	-50...+85 [-58...185]	
Safe load limit (E _L)	% of rated capacity	130	150
Breaking load (E _d)	% of rated capacity	300	
Lateral load limit (E _{lq})	% of rated capacity	50	
Permissible dynamic load (F _{srel}) (peak to peak acc. to DIN 50100)	% of rated capacity	100	
Protection class (IP) to EN 60 529 (IEC 529)		IP67	
Material: Measuring body		stainless steel	
Cable gland		Nickel plated brass, Neoprene	
Cable sheath		Silicone	

¹⁾ Optionally available with extended service temperature range.

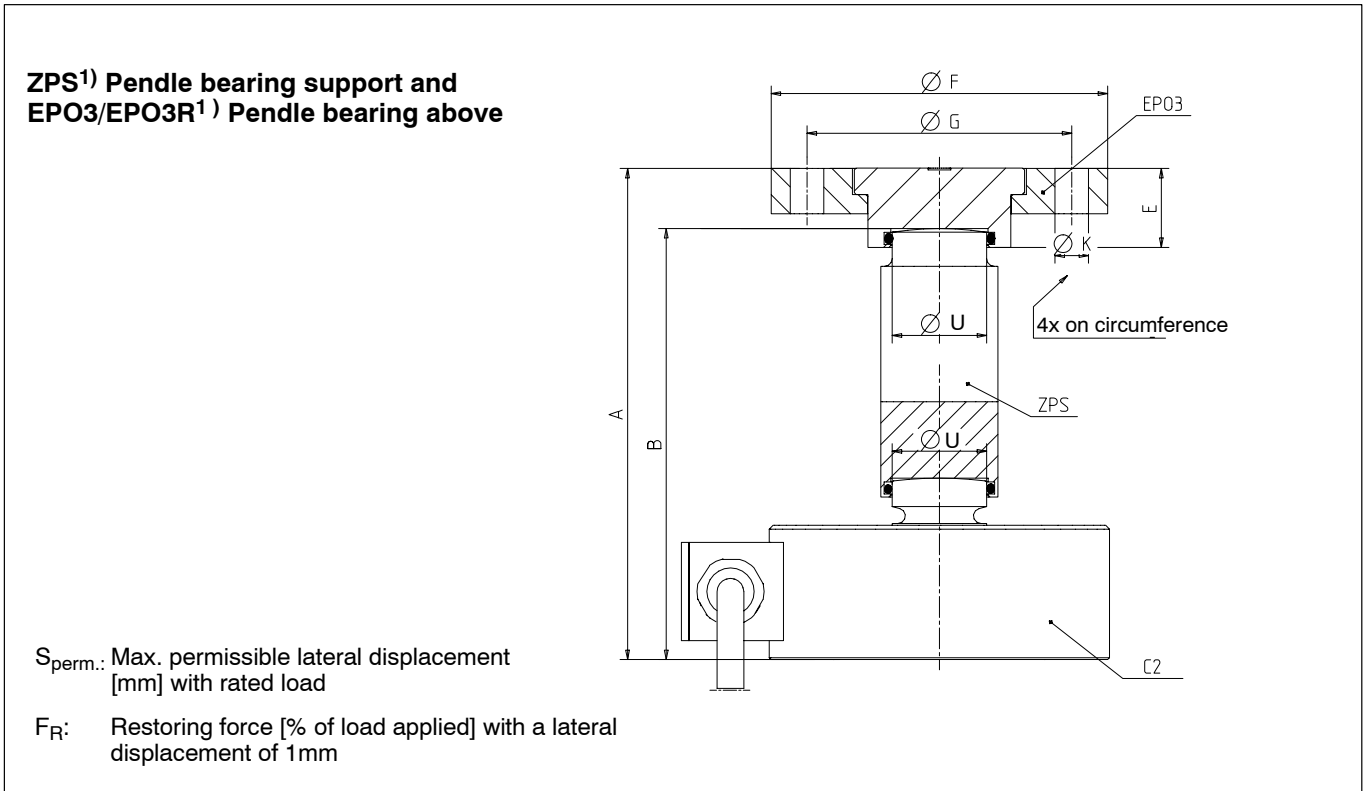
Mechanical values

Max. capacity [t]	Deflection at max. capacity (S _{nom}) [mm], approx.	Weight (G), approx. [kg]	Cable length [m]
0.05	< 0.1	0.4	3
0.1	< 0.1	0.4	3
0.2	< 0.1	0.4	3
0.5	< 0.1	0.4	3
1	< 0.1	0.4	3
2	< 0.06	1.8	6
5	< 0.06	1.8	6
10	< 0.06	3	12
20	< 0.06	3	12
50	< 0.1	8.6	12

Wiring code



Mounting accessories

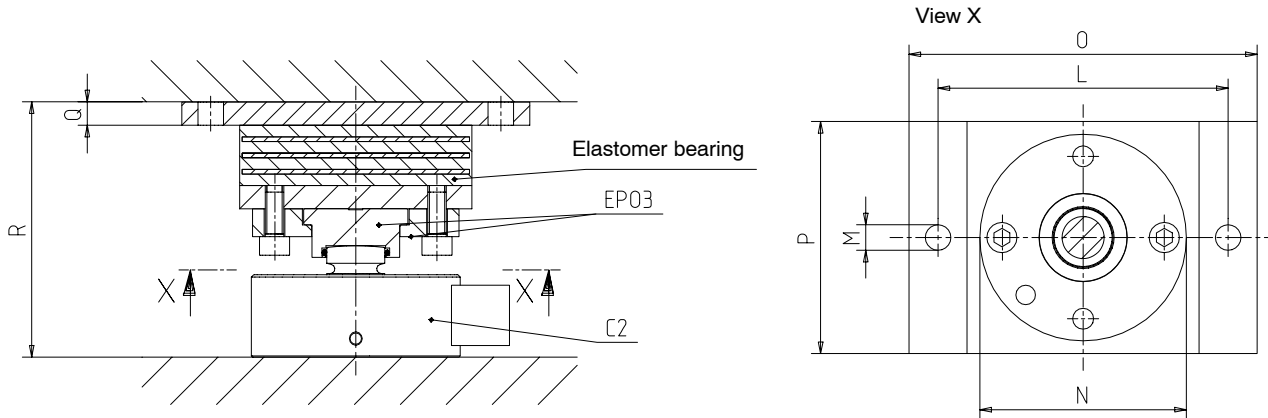


Max. capac.	Pendle bearing support ¹⁾	Pendle bearing above ¹⁾	A	B	E	ØF	ØG	ØU	ØK	$S_{perm.}$	F_R
50kg...1t	1-ZPS13/44	1-EPO3/200kg	90	74	21	89	70	13	9	±3	2.4
2 a. 5t	1-ZPS25/66	1-EPO3R/5t	130	114	21	89	70	25	9	±5	2.6
10 a. 20t	1-ZPS32/115	1-EPO3R/20t	195	175	27.5	110	90	32	13	±9	1.2
50t	1-ZPS44/150	1-EPO3/50t	280	239.5	50	147	120	44	17	±10	1.5

¹⁾ ZPS Pendle bearing support, EPO3R and EPO3/200kg Pendle bearings above are made from stainless steel.

Mounting accessories (continued)

ZELA/ZELB Elastomer bearing and EPO3/EPO3R¹⁾ pendle bearing



$S_{perm.}$: Max. permissible lateral displacement [mm] with rated load

F_R : Restoring force [N] with a lateral displacement of 1mm

Max. capac. [t]	Elastomer bearing ¹⁾	Pendle bearing ¹⁾	L	M	N	O	P	Q	R	$S_{perm.}$	F_R
0.5 and 1	1-ZELB/2t	1-EPO3/200kg	100	9	89	120	60	10	85.5	±4.5	400
2	1-ZELB/2t	1-EPO3R/5t	100	9	89	120	60	10	103	±4.5	400
5	1-ZELB/5t	1-EPO3R/5t	125	11	89	150	100	10	110	±8	620
10	1-ZELB/10t	1-EPO3R/20t	175	13	110	200	100	12	135	±9.5	810
20	1-ZELA/20t	1-EPO3R/20t	230	13	110	260	150	12	142	±15	1400
50	1-ZELA/50t	1-EPO3/50t	335	17	148	370	200	15	200	±10.5	2300

¹⁾ ZELB Elastomer bearing, EPO3R/... and EPO3/200kg Pendle bearings are made from corrosion-resistant steel.

Options



- Explosion-proof models
 - For use in intrinsically safe circuits of class EEx ia IIC T4
 - Flameproof enclosure EExd IIC T6 for max. capacities from 500kg, type designation C2E (separate Data sheet available)
- Service temperature range extended to 120°C [248°F]

Accessories, to be ordered separately:

ZPS Pendle bearing support and EPO3/EPO3R Pendle bearing
 ZELA/ZELB Elastomer bearing and EPO3/EPO3R Pendle bearing

Modifications reserved.
 All details describe our products in general form. They are not to be understood as express warranty and do not constitute any liability whatsoever.