

# PW25...

Single point load cell for rough environment

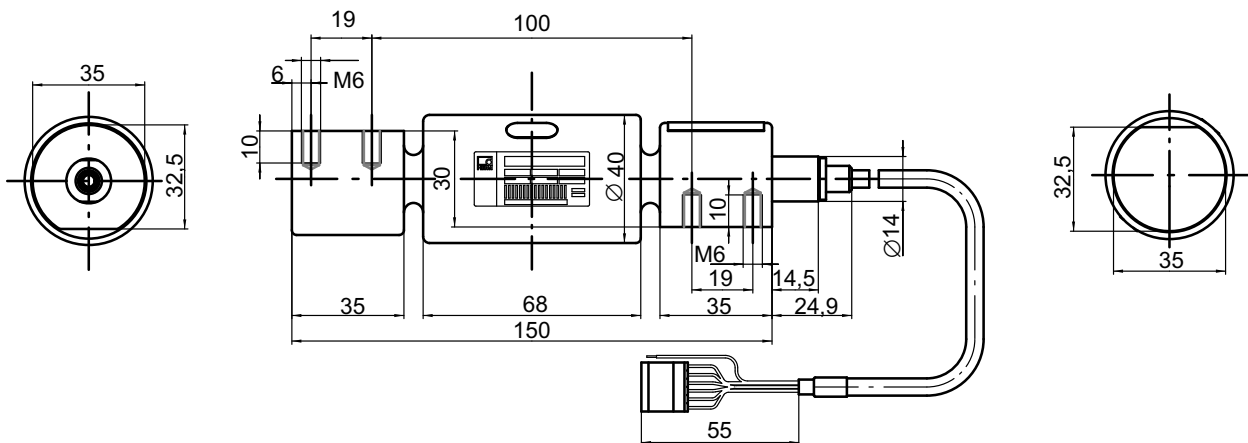
## Special features

- Nominal load 10 kg, 20 kg
- Stainless steel
- High ratio of minimum verification interval Y
- Industry Footprint (SP4M)
- Degree of protection IP68, IP69k

Data sheet



Dimensions (in mm; 1 mm = 0.03937 inches)



### Mounting:

Cylindrical head screw M6-8.8  
Tightening torque: 10 N·m

### Cable color code:

1: Signal +	: white
2: Signal -	: red
3: Excitation -	: black
4: Excitation +	: blue
5: Sense +	: green
6: Sense -	: gray
Screen	: yellow

(connected to load cell body)

## Specifications

Type			PW25/...	
Accuracy class <sup>1)</sup>			C3 Multi Range (MR)	
Maximum number of load cell verification intervals	$n_{LC}$		3000	
Maximum capacity	$E_{max}$	kg	10	20
Minimum LC verification interval	$v_{min}$	g	1	2
Ratio of minimum verification interval	Y		10000	
Maximum platform size		mm	400 x 400	
Nominal (rated) sensitivity	$C_n$	mV/V	2.0 ± 0.2	
Zero signal (without load)			0 ± 0.1	
Temperature coefficient of sensitivity <sup>2)</sup> Temperature range: +20 ... +40°C [+68 ... +104°F] -10 ... +20°C [+14 ... +68°F]	$TK_c$	% of $C_n$ / 10 K	± 0.0175 ± 0.0117	
Temperature coefficient of zero signal	$TK_0$		± 0.0140	
Hysteresis <sup>2)</sup>	$d_{hy}$	% of $C_n$	± 0.0166	
Non-linearity <sup>2)</sup>	$d_{lin}$		± 0.0166	
Minimum dead load output return	MDLOR		± 0.0166	
Off-center load error <sup>3)</sup>			± 0.0233	
Input resistance	$R_{LC}$	Ω	300 ... 500	
Output resistance	$R_0$		300 ... 500	
Reference excitation voltage	$U_{ref}$	V	5	
Nominal (rated) range of the excitation voltage	$B_U$		1 ... 12	
Maximum excitation voltage			15	
Insulation resistance at 100 V <sub>DC</sub>	$R_{is}$		GΩ	> 1
Nominal (rated) ambient temperature range	$B_T$	°C [°F]	-10 ... +40 [+14 ... +104°F]	
Operating temperature range	$B_{tu}$		-20 ... +50 [-4 ... +122°F]	
Storage temperature range	$B_{tl}$		-25 ... +70 [-13 ... +158°F]	
Service load at max. 120 mm eccentricity	EU	% of $E_{max}$	150	
Limit load at 20 mm eccentricity	$E_L$		1000	
Limit lateral loading, static	$E_{lq}$		200	
Breaking load ( $E_d$ )			> 1500	
Relative permitted vibrational stress at max. 50 mm eccentricity	$F_{srel}$		70	
Nominal (rated) displacement at $E_{max}$ , approx.	$s_{nom}$		mm	0.19
Natural frequency, approx.		Hz	210	
Weight, approx.	m	kg	0.8	
Degree of protection <sup>6)</sup>			IP 68 (test conditions 100 h at 1 m water column); IP69K (water at high pressure, steam jet cleaning) <sup>4)</sup>	
Material:	Measuring body Cable sheath		Stainless steel <sup>5)</sup> PUR	

1) According to OIML R60 with  $P_{LC} = 0.7$ .

2) The values for non-linearity ( $d_{lin}$ ), hysteresis ( $d_{hy}$ ) and temperature coefficient of sensitivity ( $TK_c$ ) are typical values. The sum of these values is within the cumulative error limits according to OIML R60.

3) According to OIML R76.

4) Based on DIN 40050, Part 9 specifications, for road vehicles.

5) According to EN 10088-1, list of materials on request.

6) Per EN 60 529 (IEC 529)

Subject to modifications.

All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.

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