

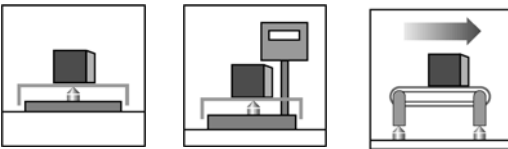
# PW25/...

single point load cell  
for rough environment,  
“Easy-To-Clean”

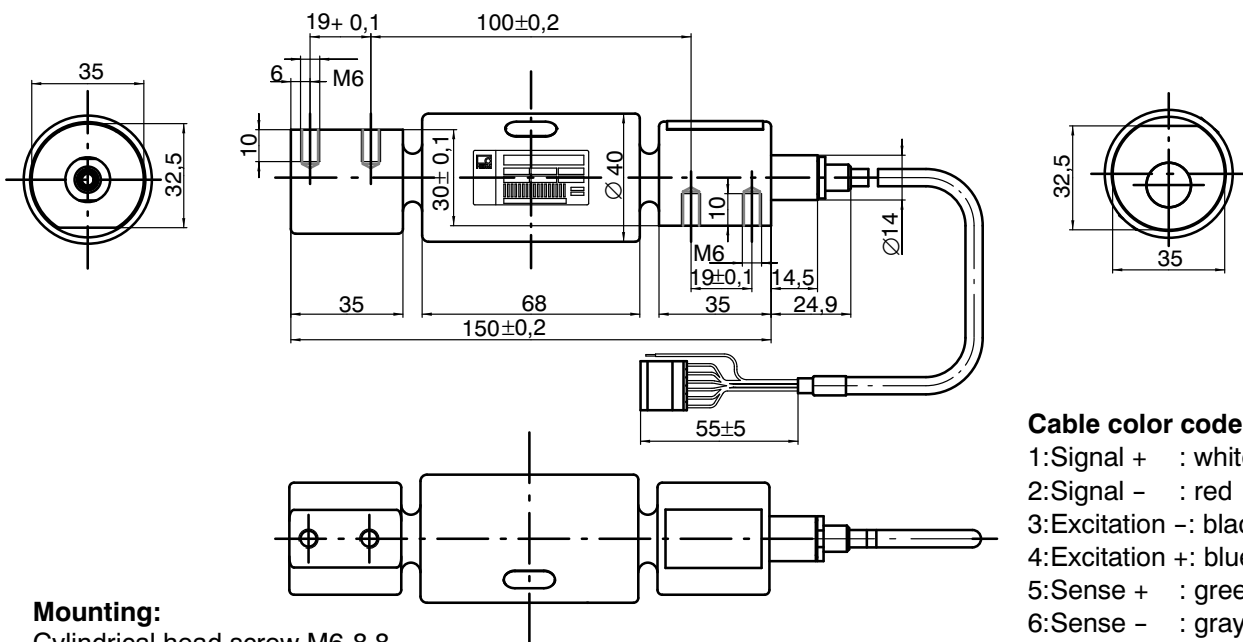


## Special features

- Hermetically sealed (IP68; IP69K)
- Highest reliability
- Integrated encapsulated overload stop
- Stainless steel
- Reduced minimum load cell verification interval ( $v_{\min}$ ) for multi range applications
- Six-wire circuit
- Integrated connection for protective cable conduit systems
- Easily adaptable to existing standard mounting situations



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>	C3MR	
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
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 ( $TK_C$ ) <sup>2)</sup>	% of $C_n$ / 10 K	± 0.0175
Temperature range: +20 ... +40°C [+68 ... +104°F] -10 ... +20°C [+14 ... +68°F]		± 0.0117
Temperature coefficient of zero signal ( $TK_0$ )		± 0.0140
Hysteresis ( $d_{hy}$ ) <sup>2)</sup>	% of $C_n$	± 0.0166
Non-linearity ( $d_{lin}$ ) <sup>2)</sup>		± 0.0166
Minimum dead load output return (MDLOR)		± 0.0166
Off-center load error <sup>3)</sup>		± 0.0233
Input resistance ( $R_{LC}$ )	Ω	380 ± 15
Output resistance ( $R_0$ )		360 ± 10
Reference excitation voltage ( $U_{ref}$ )	V	5
Nominal (rated) range of the excitation voltage ( $B_U$ )		1 ... 12
Maximum excitation voltage		15
Insulation resistance ( $R_{is}$ ) at 100 V <sub>DC</sub>	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 (EU) at max. 120 mm eccentricity	% of $E_{max}$	150
Limit load ( $E_L$ ) at 20 mm eccentricity		1000
Limit lateral loading ( $E_{lq}$ ), static		200
Breaking load ( $E_d$ )		> 1500
Relative permitted vibrational stress ( $F_{srel}$ ) at max. 50 mm eccentricity		70
Nominal (rated) displacement at $E_{max}$ ( $s_{nom}$ ), approx.	mm	< 0.18
Natural frequency, approx.	Hz	315
Weight (G), approx.	kg	0.8
Degree of protection per EN 60 529 (IEC 529)		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		Stainless steel <sup>5)</sup>
Cable sheath		PUR

<sup>1)</sup> According to OIML R60 with  $P_{LC} = 0.7$ .

<sup>2)</sup> 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.

<sup>3)</sup> According to OIML R76.

<sup>4)</sup> Based on DIN 40050, Part 9 specifications, for road vehicles.

<sup>5)</sup> According to EN 10088-1, list of materials on request.

Modifications reserved.

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