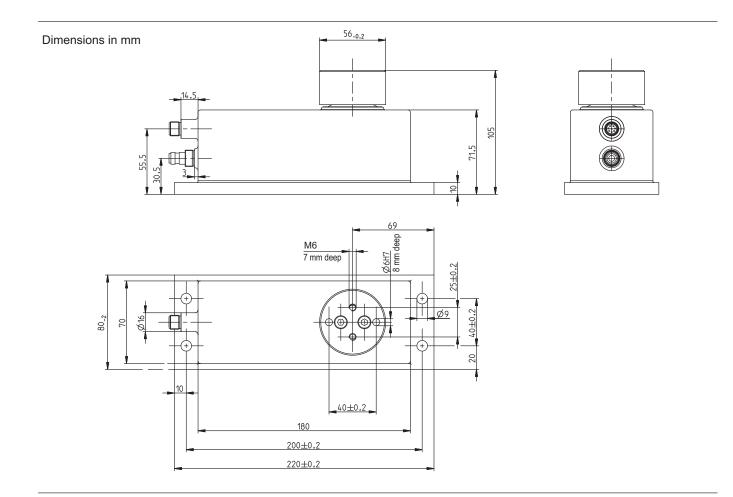


# PW28...

# Single point load cell

## **Special features**

- Maximum capacities loads 5 kg...75 kg
- Stainless steel (housing)
- Optimized for dynamic weighing tasks
- Integrated overload protection
- High ratio of minimum verification interval Y
- Compensated off-center load error
- Connector plug M12



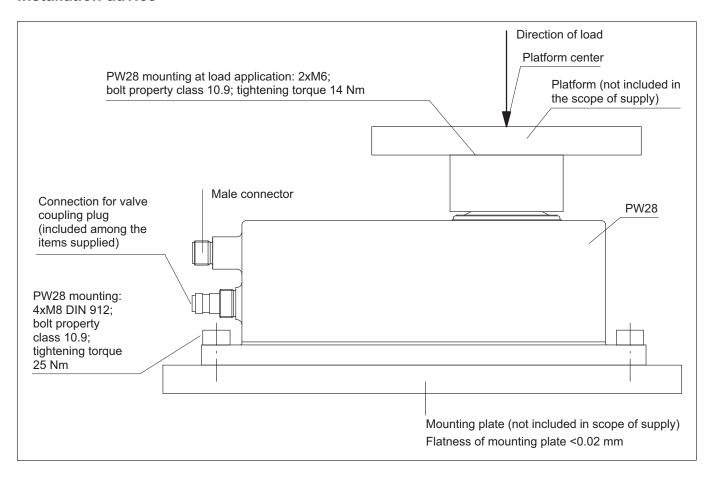


## **Specifications**

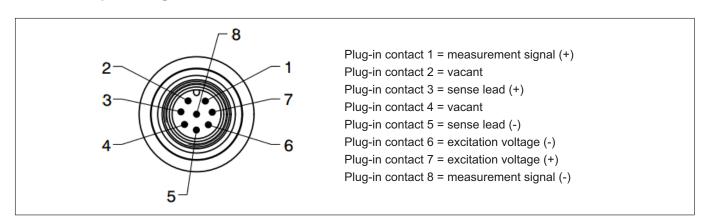
Туре						PW28			
Accuracy class <sup>1)</sup>					С3 Мі	ılti Range (	MR)		
Number of load cell verification intervals	n <sub>LC</sub>		3,000						
Maximum capacity <sup>2)</sup>	E <sub>max</sub>	kg	5	10	20	30	50	75	
Minimum load cell verification interval Standard and VA version	V <sub>min</sub>	g	0.5	1	2	5	5	10	
Maximum load cell verification interval Standard and VA version	Y		10,000		6,000	10,000	7,500		
Temperature coefficient of zero signal per 10 K Standard and VA version	TC <sub>0</sub>	% of C <sub>n</sub>	±0.0140		±0.0233	±0.0140	±0.0186		
Minimum load cell verification interval VB version	V <sub>min</sub>	g	-	0.5	1	2	-	5	
Maximum load cell verification interval VB version	Y		-	20,0	000	15,000	-	15,000	
Temperature coefficient of zero signal per 10 K VB version	TC <sub>0</sub>	% of C <sub>n</sub>	-	±0.0	070	±0.0093	-	±0.0093	
Maximum platform size		mm	400 x 400 600 x 500						
Rated output (nominal)	C <sub>n</sub>	mV/V	1.7±0.2 2.0±0.2						
Zero signal (without initial load)		mV/V	0±0.2						
Temperature coefficient of sensitivity <sup>3)</sup> +20°C +40°C -10°C +20°C	TCS	% of C <sub>n</sub> /10K	±0.0131 ±0.0083						
Relative reversibility error <sup>3)4)</sup>	d <sub>hy</sub>					±0.0166			
Non-linearity <sup>3)4)</sup>	d <sub>lin</sub>	-	±0.0120						
Minimum dead load output return	MDLOR	% of C <sub>n</sub>	±0.0166						
Off-center load error <sup>3)</sup>	d <sub>cr</sub>		±0.0233						
Input resistance	R <sub>LC</sub>	_	300 500 300 500						
Output resistance	Ro	Ω							
Reference excitation voltage	U <sub>ref</sub>		5						
Nom. (rated) range of the excitation voltage		V	1 12						
Maximum excitation voltage	B <sub>U</sub>		15						
Insulation resistance at 100 V <sub>DC</sub>	R <sub>is</sub>	GΩ	>2						
Nom. (rated) range of the ambient temperature	B <sub>T</sub>				-	10 +40			
Operating temperature range	B <sub>tu</sub>	°C		-10 +50					
Storage temperature range	B <sub>tl</sub>				-:	25 +70			
Limit load at max. 20 mm eccentricity	EL					1000			
Limit lateral loading, static	E <sub>lq</sub>	1	300						
Service load at max. 100 mm eccentricity	Eu	% of	150						
Breaking load at max. 20 mm eccentricity	E <sub>d</sub>	E <sub>max</sub>	1,000						
Relative permissible oscillation stress at max. 20 mm eccentricity	F <sub>srel</sub>			70					
Rated displacement at E <sub>max</sub>		mm	< 0.1						
Weight	m	kg	0.8						
Equipment protection level <sup>6)</sup>			IP67						
Material (measuring body)			Aluminum						
Material (housing)				S	tainles	s steel 1.4	·545 <sup>5)</sup>		

As per OIML R60 with P<sub>LC</sub>=0.7
Max. eccentric loading as per OIML R76
The values for non-linearity (d<sub>lin</sub>), relative reversibility error (d<sub>hy</sub>) and temperature coefficient of sensitivity (TC<sub>S</sub>) are recommended values. The sum of these values is within the accumulated error limit specified by OIML R60.
All relative error data refer to the output signal at max. capacity.
As per EN 10088-1
As per EN 60529 (IEC 529)

#### Installation advice



### Connector pin assignment



#### **Accessories**

Connection cable	
Connection cable with M12 F connector, 8-pin, TPU IP67, PUR cable sheath, 5 m long	1-KAB168-5
Connection cable with M12 F connector, 8-pin, TPU IP67, PUR cable sheath, 20 m long	1-KAB168-20
Connection cable with M12 F connector, 8-pin, stainless steel IP68/IP69K, hygiene design, 3 m long	1-KAB175-3-1
Connection cable with M12 F connector, 8-pin, stainless steel IP68/IP69K, hygiene design, 6 m long	1-KAB175-6-1
Connection cable with M12 F connector, 8-pin, stainless steel IP68/IP69K, hygiene design, 12 m long	1-KAB175-12-1

For connection cable specifications, see separate data sheet B3643.

## Pin assignment 1-KAB168

Color code	Connection	
White	Measurement signal (+)	
Red	Measurement signal (-)	
Blue	Excitation voltage (+)	
Pink	Excitation voltage (-)	
Green	Sense lead (+)	
Gray	Sense lead (-)	
Yellow	Not in use	
Brown	Not in use	

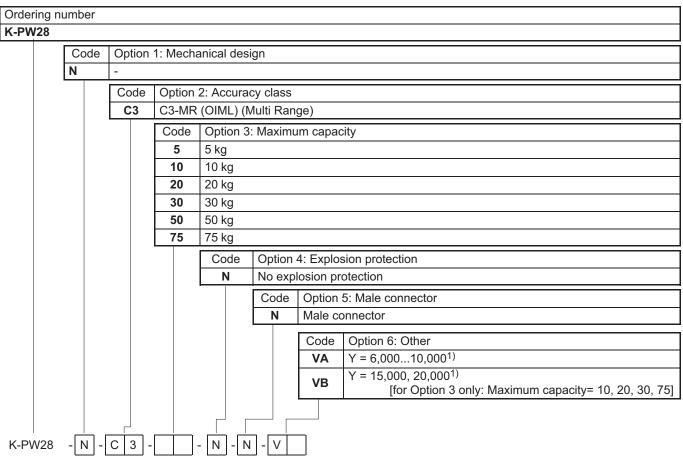
### Pin assignment 1-KAB175

Color code	Connection	
White	Measurement signal (+)	
Red	Measurement signal (-)	
Blue	Excitation voltage (+)	
Black	Excitation voltage (-)	
Green	Sense lead (+)	
Gray	Sense lead (-)	

#### **Product number**

Туре	PW28PHC3
Accuracy class	C3-MR (OIML)
Maximum capacity	Ordering number
5 kg	1-PW28PHC3/5KG
10 kg	1-PW28PHC3/10KG
20 kg	1-PW28PHC3/20KG
30 kg	1-PW28PHC3/30KG
50 kg	1-PW28PHC3/50KG
75 kg	1-PW28PHC3/75KG

## K-PW28..., optional versions



<sup>1)</sup> You can find more detailed information in "Specifications" on page 2

