

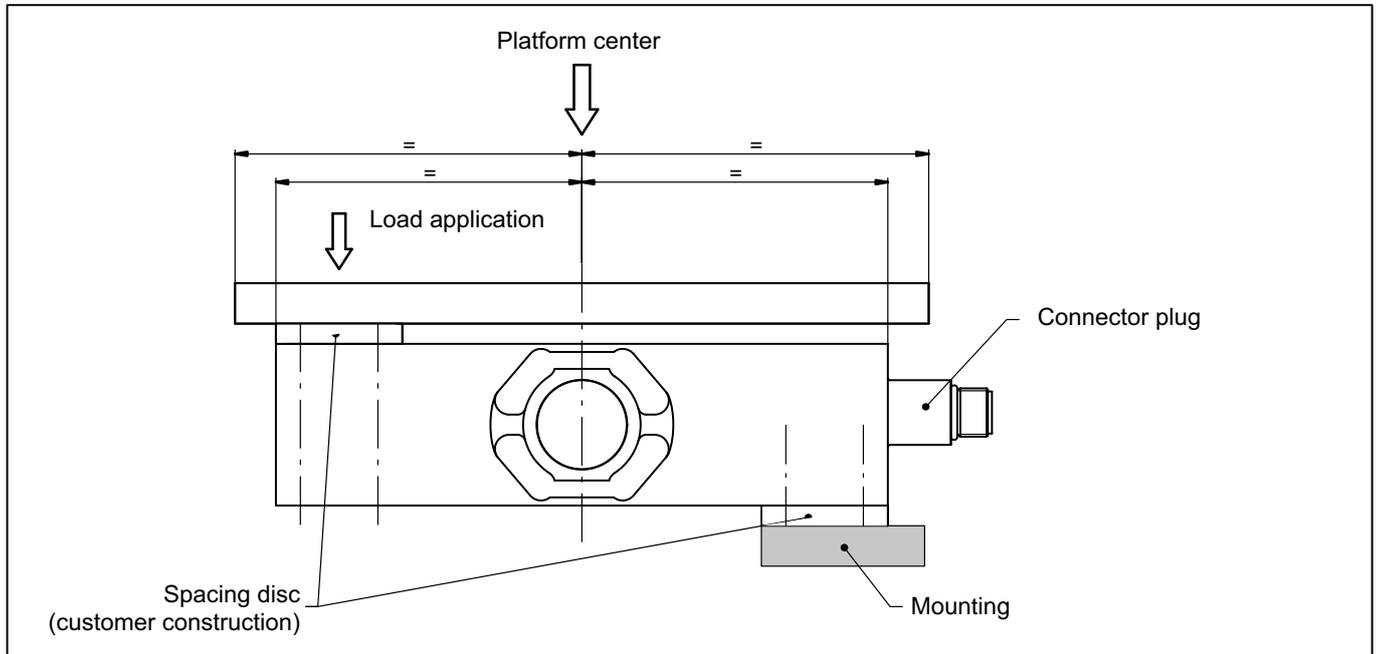
Specifications

Type			PW15PH/PW15PHY (C3 MR)			
Accuracy class ¹⁾			C3 Multi Range (MR)			
Number of load cell verification intervals	n_{LC}		3000			
Maximum capacity	E_{max}	kg	10	20	50	100
Minimum load cell verification interval	v_{min}	g	1	2	5	10
Ratio of minimum verification interval (PW15PH)	Y		10000			
Temperature coefficient of the zero signal per 10 K (PW15PH)	TK_0	% of C_n / 10 K	± 0.0140	± 0.0140	± 0.0140	± 0.0140
Ratio of minimum verification interval (PW15PHY)	Y		20000		25000	20000
Temperature coefficient of the zero signal per 10 K (PW15PHY)	TK_0	% of C_n / 10 K	± 0.0070	± 0.0070	± 0.0056	± 0.0070
Maximum platform size		mm	500 x 400			
Nominal (rated) sensitivity	C_n	mV/V	2.0 \pm 0.2			
Zero signal error			0 \pm 0.1			
Temperature coefficient of the sensitivity per 10 K ²⁾ in the temperature range +20 ... +40 °C -10 ... +20 °C	TK_C	% of C_n	± 0.0175 ± 0.0117			
Non-linearity ²⁾	d_{lin}		± 0.0166			
Relative reversibility error ²⁾	d_{hy}		± 0.0166			
Minimum dead load output return	MDLOR		± 0.0166			
Off-center load error ³⁾			± 0.0166			
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 _{DC}	R_{is}	G Ω	>1			
Nominal (rated) ambient temperature range	B_T	°C	-10 ... +40			
Operating temperature range	B_{tu}		-10 ... +50			
Storage temperature range	B_{tl}		-25 ... +70			
Cleaning temperature			Max. 120 °C for max. 10 minutes			
Limit load at 100 mm eccentricity	E_L	% of E_{max}	150			
Limit load at max. eccentricity of 160 mm	E_L		150			
Limit lateral loading, static	E_{lq}		300			
Breaking load	E_d		300			
Nominal (rated) displacement ⁴⁾	s_{nom}	mm	<0.5			
Weight, approx.	m	kg	0.9			
Degree of protection ⁶⁾			IP68 (test conditions 1 m water column / 100 h); IP69K (water at high pressure, steam cleaner) ⁵⁾			
Measuring body material			Stainless steel 1.4545 ⁷⁾			

¹⁾ As per OIML R60, with $P_{LC} = 0.7$.

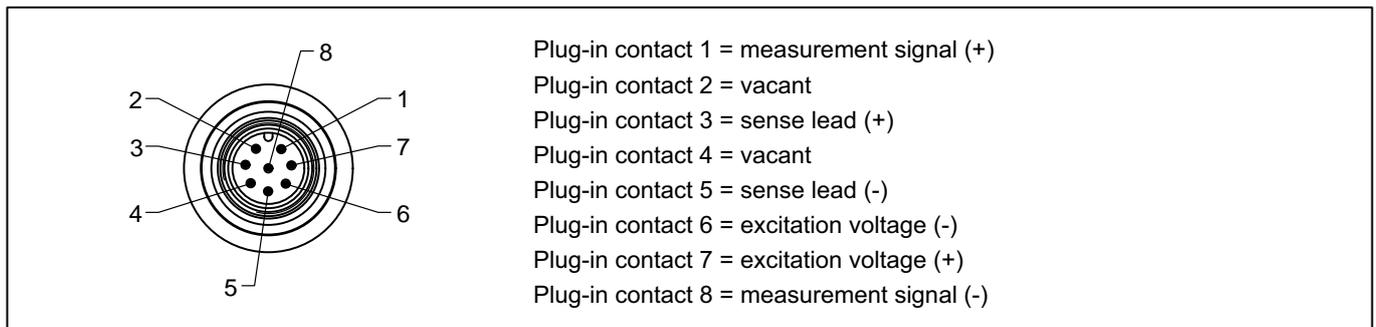
- 2) The values for non-linearity (d_{lin}), relative reversibility error (d_{hy}) and temperature coefficient of sensitivity (TK_C) are recommended values. The sum of these values is within the cumulated error limit laid down by OIML R60.
- 3) As per OIML R76.
- 4) Loading with E_{max} and center of gravity in center of load cell.
- 5) Based on DIN 40050, Part 9 specifications, for road vehicles.
- 6) As per EN 60529 (IEC 529)
- 7) As per EN 10088-1.

Mounting instructions



Maximum capacities	Thread	Min. property class	Tightening torque
10 ... 100 kg	M6	10.9	14 N·m

Connector pin assignment



Product numbers (overview)

PW15PH... (stainless steel, hermetically sealed)

Type	PW15PH	PW15PHY
Accuracy class	C3-MR (OIML) (Multi Range)	C3-MR (OIML)
Comments	Cable length 3 m (6-wire)-	
Capacity	Order number	
10 kg	1-PW15PHC3/10KG-1	1-PW15PHY/10KG-1
20 kg	1-PW15PHC3/20KG-1	1-PW15PHY/20KG-1
50 kg	1-PW15PHC3/50KG-1	1-PW15PHY/50KG-1
100 kg	1-PW15PHC3/100KG-1	

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

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 (-)

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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