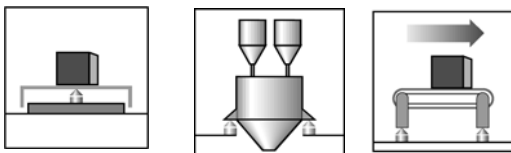


PW15PH...

Platform load cell

Characteristic features

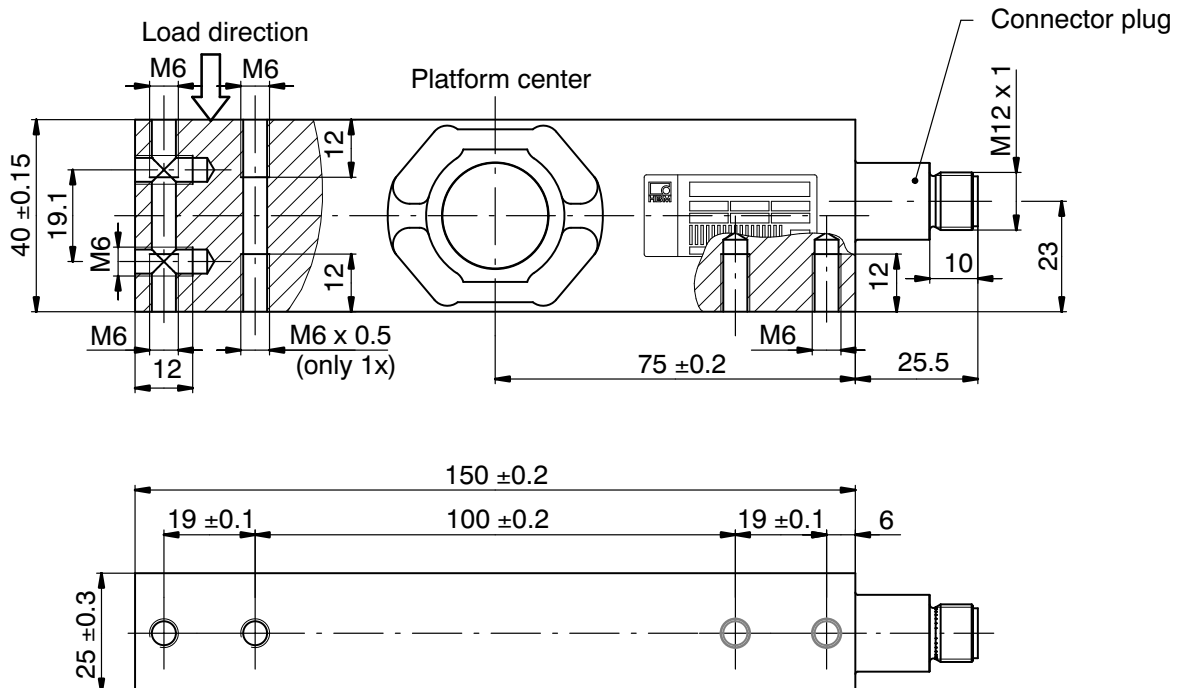
- Hermetically sealed (IP68; IP69K)
- Top reliability
- Constricted minimum load cell (V_{min}) for multirange applications
- Installation compatibility with the products of numerous manufacturers
- Stainless steel
- Six-wire configuration
- Robust connector, stainless steel M12



Accessories:

- M12 connection cable, hygiene design
- Connection cable, economy standard version
- Various cable lengths

Dimensions (in mm; 1 mm = 0.03937 inches)



Specifications

Type	PW15PH				
Accuracy class ¹⁾	C3MR				
Number of load cell verification intervals (n_{LC})	3000				
Maximum capacity ¹⁾ (E_{max})	kg	10	20	50	100
Minimum scale division (v_{min})	g	1	2	5	10
Maximum platform size	mm	500 x 400			
Nominal (rated) sensitivity (C_n)	mV/V	2.0 ± 0.2; Option 6: 2.0 ± 0.1			
Temperature coefficient of sensitivity (TK_C) ²⁾³⁾) in the temperature range +20 ... +40 °C -10 ... +20 °C	% of C_n / 10 K	± 0.0170 ± 0.0117			
Zero signal	mV/V	0 ± 0.1			
Temperature coefficient of zero signal (TK_0) ³⁾	% of $C_n/10$ K	± 0.0140			
Linearity deviation (d_{lin}) ^{2) 3)}	% of C_n	± 0.0166			
Relative reversibility error (d_{hy}) ^{2) 3)}		± 0.0166			
Creep upon loading (d_{cr}) over 30 minutes	% of C_n	± 0.0166			
Off-center load error ³⁾		± 0.0100			
Input resistance (R_{LC})		380 ± 15			
Output resistance (R_0)	Ω	350 ± 10 (option 6: 350 ± 0.2)			
Reference excitation voltage (U_{ref})	V	5			
Nominal excitation voltage range (B_U)	V	0 ... 12			
Maximum excitation voltage	V	15			
Insulation resistance (R_{is}) at 100 V _{DC}	GΩ	>2			
Nominal ambient temperature range (B_T)		-10 ... +40			
Operating temperature range (B_{tu})	°C	-10 ... +50			
Storage temperature range (B_{tl})		-25 ... +85			
Cleaning temperature	°C	Max. 120 °C for max. 10 minutes			
Limit load (E_L) at 100 mm eccentricity	% of E_{max}	150			
Limit load (E_L) *)	% of E_{max}	150			
*) at max. eccentricity	mm	160			
Limit lateral loading (E_{lq}), static	% of E_{max}	300			
Breaking load (E_d)	% of E_{max}	300			
Nominal (rated) displacement at E_{max} (s_{nom}), approx.	mm	<0.5			
Weight (G), approx.	kg	0.8			
Degree of protection per EN 60529 (IEC 529)		IP68 (test conditions 1 m water column / 100 h); IP69K (water at high pressure, steam cleaner) ⁴⁾			
Measuring body material		Stainless steel 1.4545			

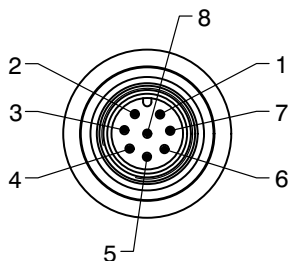
¹⁾ As per OIML R60, with $P_{LC} = 0.7$

²⁾ The values for non-linearity (d_{lin}), relative reversibility error (d_{hy}) and temperature coefficient of sensitivity (TC_S) are recommended values. The sum of these values is within the cumulative error limits laid down by OIML R60.

³⁾ As per OIML R76

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

Pin assignment



Plug-in contact 1 = Measurement signal (+)

Plug-in contact 2 = vacant

Plug-in contact 3 = Sense lead (+)

Plug-in contact 4 = vacant

Plug-in contact 5 = Sense lead (-)

Plug-in contact 6 = Excitation voltage (-)

Plug-in contact 7 = Excitation voltage (+)

Plug-in contact 8 = Measurement signal (-)

Accessories:



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

Connection cable	
Connection cable with plug M12, 8-pin, stainless steel IP68/IP69K, hygiene design 3 m long	1-KAB175-3
Connection cable with plug M12, 8-pin, stainless steel IP68/IP69K, hygiene design 6 m long	1-KAB175-6
Connection cable with plug M12, 8-pin, stainless steel IP67, 5 m long	1-KAB168-5
Connection cable with plug M12, 8-pin, stainless steel IP67, 20 m long	1-KAB168-20

Pin assignment 1-KAB175

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

Pin assignment 1-KAB168

Wire color	Connection
White	Measurement signal (+)
Red	Measurement signal (-)
Blue	Excitation voltage (+)
Pink	Excitation voltage (-)
Green	Sense lead (+)
Gray	Sense lead (-)
Yellow	No function
Brown	No function

Order numbers (overview)

PW15PH... (stainless steel, hermetically sealed)

Type	PW15PH
Accuracy class	C3-MR (OIML)
Maximum capacity	Order number
10 kg	1-PW15PHC3/10KG-1
20 kg	1-PW15PHC3/20KG-1
50 kg	1-PW15PHC3/50KG-1
100 kg	1-PW15PHC3/100KG-1

K-PW15PH... (stainless steel, hermetically sealed), optional versions

Order no.
K-PW15PH

Code	Option 1: Mechanical design
N	Standard

Code	Option 2: Accuracy class
C3	C3-MR (OIML)

Code	Option 3: Maximum capacity
10	10 kg
20	20 kg
50	50 kg
100	100 kg

Code	Option 4: Not available
N	-

Code	Option 5: Cable length
N	No option Cable length

Code	Option 6: Other
N	no
A	2 mV/V $\pm 0.1\%$ / 350 Ω $\pm 0.2 \Omega$ (aligned output, suitable for parallel connection)

Order No. K-PW15PH - - - - - -
 K-PW15PH example - - - - - -

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

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