

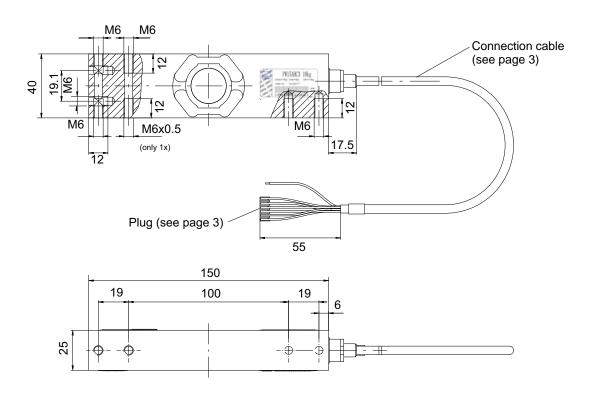
PW15AH...

Single point load cell

Special features

- Nominal load 10 kg ... 100 kg
- Stainless steel
- High ratio of minimum verification interval Y
- Industrial Footprint (SP4M)
- Degree of Protection IP68; IP69K
- Different cable lengths and other options available

Dimensions (in mm; 1 mm= 0.03937 inches)





Specifications

Туре	PW15AH/PW15AHY (C3 MR)							
Accuracy class 1)	C3 Multi Range (MR)							
Max. number of load cell interval	3000							
Maximum capacity	E _{max}	kg	10	20	50	100		
Min. LC verification interval (PW15AH)	V _{min}	g	1	2	5	10		
Ratio of minimum verification interval (PW15AH)	Υ			10000				
Temperature effect on zero balance (PW15AH)			9	9	9	01		
	TK ₀	% of C _n / 10 K	± 0.0140	± 0.0140	± 0.0140	±0.0140		
Min. LC verification interval (PW15AHY)	v _{min}	g	0.5	1	2	5		
Ratio of minimum verification interval (PW15AHY)	Υ		200	00	25000	20000		
Temperature effect on zero balance (PW15AHY)	TK ₀	% of C _n / 10 K	± 0.0070	± 0.0070	± 0.0056	±0.0070		
Maximum platform size		mm		500	x 400			
Sensitivity	C _n	> //\ /		2.0 :	± 0.2			
Zero balance		mV/V	0 ± 0.1					
Temperature effect on sensitivity ²⁾								
Temperature range:	TV	% of C _n /						
+20 +40°C [+68 +104°F]	TK _C	10 K	± 0.0175					
-10 +20°C [+14 +68°F]				± 0.0	0117			
Hysteresis error ²⁾	d _{hy}			±0.0	0166			
Non-linearity ²⁾	d _{lin}	% of C _n	± 0.0166					
Minimum dead load output return	DR	% 01 C _n	±0.0166					
Off center load error ³⁾			± 0.0233 ³⁾					
Input resistance	R _{LC}	Ω	300 500					
Output resistance	R ₀	52	300 500					
Reference excitation voltage	U _{ref}	_	5					
Nom. range of excitation voltage	B _U	_ V	1 12					
Max. excitation voltage			15					
Insulation resistance with 100 V _{DC}	R _{is}	GΩ		>				
Nominal temperature range	B _T	↓			14 +104°F	_		
Service temperature range	B _{tu}	°C [°F]	-10 +50 [+14 +122°F]					
Storage temperature range	B _{tl}		-2	25 +70 [-1	13 +158°F]		
Safe load limit *)	EL	% of E _{max}			50			
*) at max. eccentricity		mm			60			
Lateral load limit, static	E _{lq}	% of E _{max}	300					
Breaking load	E _d	, o omax			00			
Deflect. at E _{max} , approx.	S _{nom}	mm			0.5			
Weight, approx.	m	kg			.0			
Protection class ⁵⁾			•	colu vater at high clean	n pressure, s ing) ⁴⁾			
Material Measuring element Cable sheath					45 ⁶⁾ /C			

According to OIML R60 with P_{LC} = 0.7
 The data for Non-linearity (d_{lin}), Hysteresis error (d_{hy}) and Temperature effect on sensitivity (TK_C) are typical values. The sum of these data meets the requirements according to OIML R60.
 According to OIML R76
 Following the definitions of the DIN 40050, part of 9, for road vehicles
 According to EN60529 (IEC529)
 According to EN 10088-1

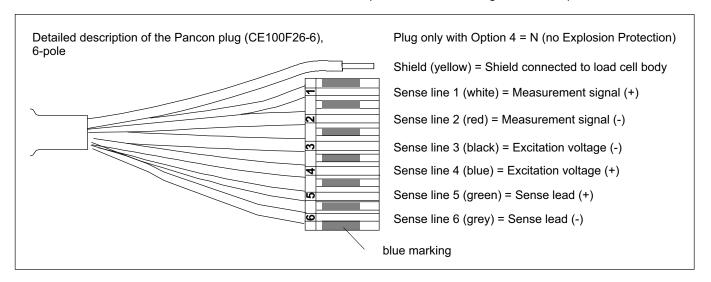
Туре	PW15AH (C6 MR)					
Accuracy class 1)	C6 MR (Multi Range)					
Max. number of load cell interval	n_{LC}		6,000			
Maximum capacity	E _{max}	kg	10	20	50	100
Minimum load cell verification interval	V _{min}	g	0.5	1	2	5
Ratio of minimum verification interval	Υ		20,	000	25,000	20,000
Temperature coefficient of zero signal	TC ₀		±0.0070	±0.0070	±0.0056	±0.0070
Temperature coefficient of sensitivity 2) Temperature range: +20 +40°C [+68 +104°F] -10 +20°C [+14 +68°F]	TCs	% of C _n / 10 K	±0.0087 ±0.0058			
Hysteresis error ²⁾	d _{hy}		±0.0083			
Non-linearity ²⁾	d _{lin}	0/ of C	±0.0083			
Minimum dead load output return	MDLOR	% of C _n	±0.0083			
Off center load error ³⁾			±0.0116			

Туре	PW15AH (C3MI8)					
Accuracy class 1)			C3MI8			
Max. number of load cell interval	n_{LC}		3,000			
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	Y		10,000			
Temperature coefficient of zero signal	TC ₀		±0.0140			
Temperature coefficient of sensitivity ²⁾		% of C _n / 10 K				
Temperature range: +20 +40°C [+68 +104°F]	TCs		±0.0175			
-10 +20°C [+14 +68°F]			±0.0117			
Hysteresis error ²⁾	d _{hy}		±0.0062			
Non-linearity ²⁾	d _{lin}	0/ -4 0	•	±0.0062		
Minimum dead load output return	MDLOR	% of C _n	±0.0062			
Off center load error 3)			±0.0116			

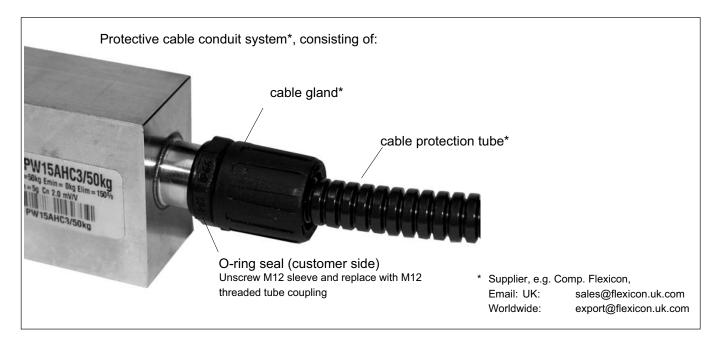
As per OIML R60, with P_{LC} = 0.7
 The sum of data for Non-linearity, Hysteresis and TC Span meets the requirements of OIML R60
 As per OIML R76

Wiring code

Connection with 6 wire cable, 24 AWG, 6 x 0.14 mm², Ø5.4 (selectable cable length: 3 m; 6 m)

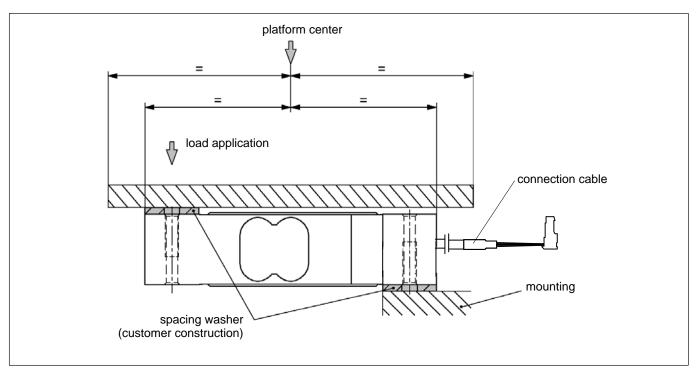


Cable protection (to be implemented by the customer)



Load application

Load must not be applied to the side where the cable connection is located, as this would cause a force shunt.



Ordering codes

PW15AH... (Stainless steel, hermetically sealed)

Туре	PW15AH	PW15AHY	PW15AH C3 MI8	PW15AH C6-MR
Accuracy class	C3-MR (OIML) (Multi Range)	C3-MR (OIML) (Multi Range, high Y value)	C3 MI8 (OIML)	C6-MR (OIML) (Multi Range)
Comments	Cable length 3 m (6-wire)-			
Capacity	Order number			
10 kg	1-PW15AHC3/10KG-1	1-PW15AHY/10KG-1		
20 kg	1-PW15AHC3/20KG-1	1-PW15AHY/20KG-1		
50 kg	1-PW15AHC3/50KG-1	1-PW15AHY/50KG-1		
100 kg	1-PW15AHC3/100KG-1	1-PW15AHY/100KG-1		
10 kg	1-PW15AHC6/10KG-1	1-PW15AHMI/10KG-1		
20 kg	1-PW15AHC6/20KG-1	1-PW15AHMI/20KG-1		
50 kg	1-PW15AHC6/50KG-1	1-PW15AHMI/50KG-1		
100 kg	1-PW15AHC6/100KG-1	1-PW15AHMI/100KG-1		

PW15AH... (Stainless steel, hermetically sealed), optional versions

Order n	0.									
K-PW1	5AH									
	Code	Option	otion 1: Mechanical version							
	N	Standa	ard							
		Code	Option	2: Accur	асу					
		MR	C3-MF	R (OIML)						
			Code	Option	3: Сарас	city				
			10	10 kg	<u> </u>					
			20	20 kg						
			50	50 kg						
			100	100 kg						
				Code	Code Option 4: Explosion protection					
				N No explosion protection						
				Al1/21 IECEx+ATEX Zone 1/21+FM, intrinsically safe II 2G Ex ia IIC T6/T4 Gb/II 2D Ex ia IIIC T125°C Db*						
				Al2/22	ne 2/22, not intrinsically safe II 3G Ex ec IIC T6/T4 Gc/II 3D Ex tc IIIC					
				Code Option			5: Cable length			
					3	3 m				
					6 6 m					
						Code	Option 6: Miscellaneous			
						N	without			
						Α	2mV/V ±0.1% / 359 Ohm ±0.3 Ohm (aligned output, suitable for connection in parallel)			
							Code Option 7			
							N Standard			
			_							
K-PW1	5AH -	. N - N	1 R -] - 🔲		ŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ			

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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^{*} Including EC-Type Examination Certificate/Certificate of Conformity BVS 13 ATEX X 108 X/IECEx BVS 13.0109 X