



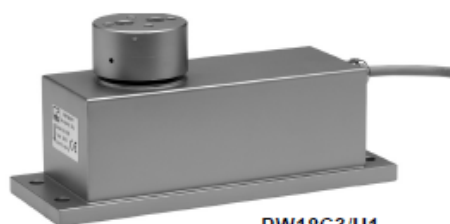
# PW18C3

# PW18C3/H1

Single point load cells for static and dynamic weighing



PW18C3



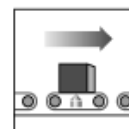
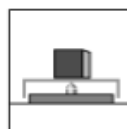
PW18C3/H1

### Special features

- High accuracy
- High overload limits
- High torsion / bending stiffness
- Protection class IP 67

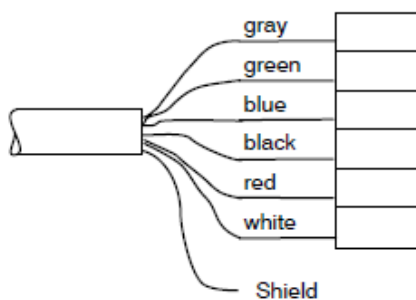
### PW18C3/H1 version:

- Integrated vertical overload stops, effective in positive and negative load direction
- Corrosion resistant, laser welded
- Barometric pressure balance
- Protection class IP 66

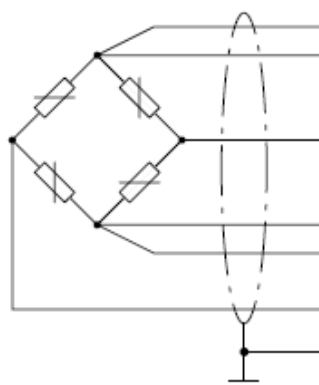


Abmessungen (in mm)

Pancon CE 100F26-6  
(6 terminals)



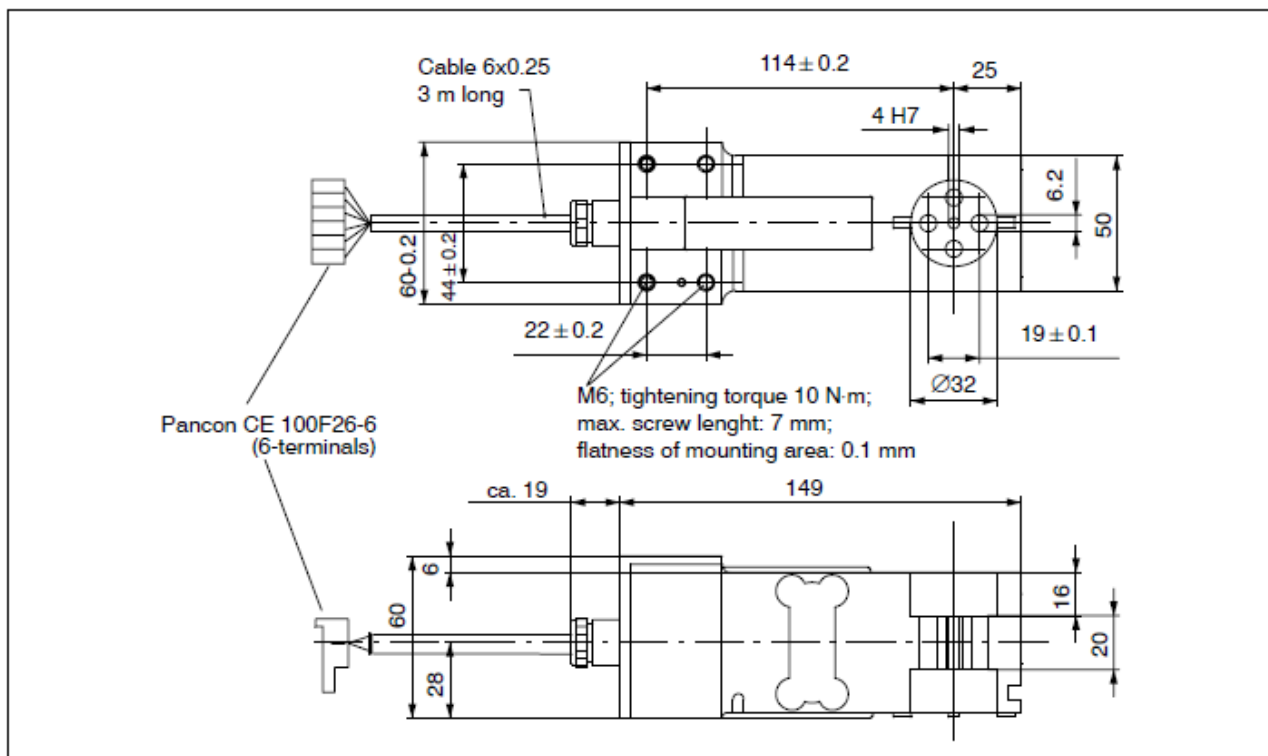
Wiring code (6-wire circuit):



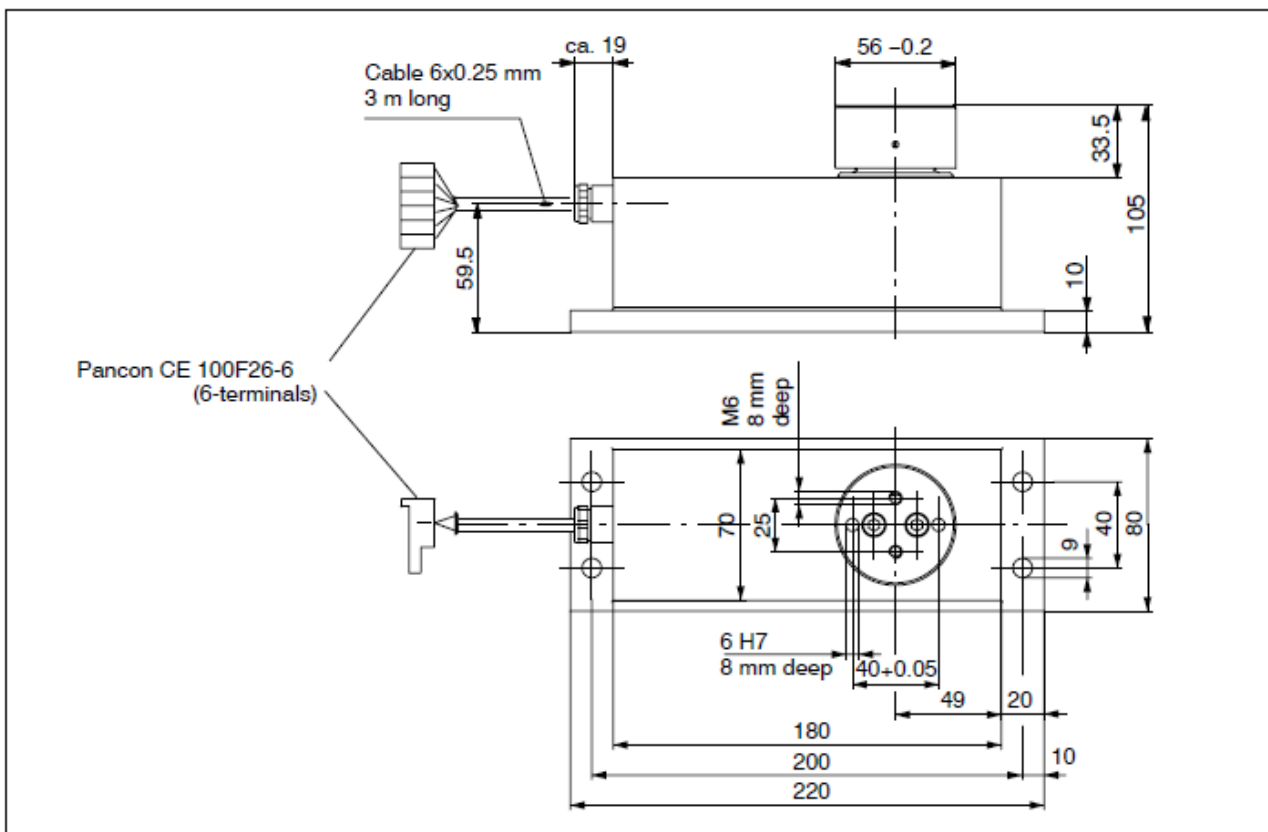
- (grey) Sense (-)
- (black) Excitation (-)
- (white) Signal (+)
- (blue) Excitation (+)
- (green) Sense (+)
- (red) Signal (-)
- Shield / wire strand connected with housing



**Dimensions of the single point load cell PW18C3 (in mm; 1 mm= 0.03937 inches)**



**Dimensions of the single point load cell PW18C3/H1 (in mm; 1 mm= 0.03937 inches)**



## Specifications

Type		PW18C3					PW18C3/H1									
Accuracy class		C3 <sup>1)</sup>					C3 <sup>1)</sup>									
Max. number of load cell intervals ( $n_{LC}$ )		3000					3000									
Nominal (rated) Load ( $E_{max}$ )	kg	5	10	20	50	75	5	10	20	50	75					
Min. LC verification interval ( $v_{min}$ )	g	0.5	1	2	5	10	0.5	1	2	5	10					
Temperature effect on zero balance ( $TK_0$ )	mV/V	$\pm 0.0140$					$\pm 0.0140$									
Max. Platform size	mm	400 x 400			600 x 500		400 x 400			600 x 500						
Sensitivity ( $C_n$ )	mV/V	$1.0 \pm 0.1$					$1.0 \pm 0.1$									
Zero signal		$0 \pm 0.1$					$0 \pm 0.1$									
Temperature effect on sensitivity ( $TK_C$ ) <sup>2)</sup>	% from $C_n / 10 K$	Temperature range: +20 ... +40 °C [+68 ... 104 °F] -10 ... +20 °C [+14 ... 68 °F]					$\pm 0.0175$ $\pm 0.0117$									
Hysteresis error ( $d_{hy}$ ) <sup>2)</sup>												$\pm 0.0166$				
Non-Linearity ( $d_{lin}$ ) <sup>2)</sup>												$\pm 0.0166$				
Minimum dead load output return (DR)	% from $C_n$	$\pm 0.0166$					$\pm 0.0166$									
Off center load error <sup>3)</sup>		$\pm 0.0233$					$\pm 0.0233$									
Input resistance ( $R_{LC}$ )		$380 \dots 500$					$380 \dots 500$									
Output resistance ( $R_0$ )	$\Omega$	$350 \dots 500$					$350 \dots 500$									
Reference excitation voltage ( $U_{ref}$ )	V	5					5									
Nominal range of excitation voltage ( $B_U$ )		1 ... 12					1 ... 12									
Max. excitation voltage		15					15									
Insulation resistance ( $R_{is}$ ) at 100 V <sub>DC</sub>		G $\Omega$	> 1					> 1								
Nominal temperature range ( $B_T$ )	°C [°F]	-10 ... +40 [14 °F ... 104 °F]					-10 ... +40 [14 °F ... 104 °F]									
Service temperature range ( $B_{tu}$ )		-10 ... +50 [14 °F ... 122 °F]					-10 ... +50 [14 °F ... 122 °F]									
Storage temperature range ( $B_s$ )		-25 ... +75 [-13 °F ... 167 °F]					-25 ... +75 [-13 °F ... 167 °F]									
Limit load ( $E_L$ ) <sup>4)</sup>	% from $E_{max}$	300 <sup>4)</sup>					1000									
<sup>4)</sup> at max. 20mm Eccentricity		800					800									
Lateral load limit ( $E_{lq}$ ), static																
Breaking load ( $E_d$ )		400					>1000									
Nominal displacement at $E_{max}$ ( $s_{nom}$ ), approx.	mm	< 0.15					< 0.15									
Weight (G), approx.	kg	0.8					3									
Protection class to EN60529 (IEC529)		IP67					IP66									
Material of the PW18C3: Measuring element Cover Cable sheath		Aluminium Silicone rubber TPE														
Material of the PW18C3/H1: Housing Membrane Cable sheath							Stainless steel Silicone caoutchouc R830 TPE									

1) According to OIML R60 with  $P_{LC} = 0.7$

2) 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.

3) According to OIML R76.

4) In combination with a grinded baseplate up to 1000% (details please see operating manual)

## Mounting hints for single point load cells PW18C3 and PW18C3/H1

