

# C9B

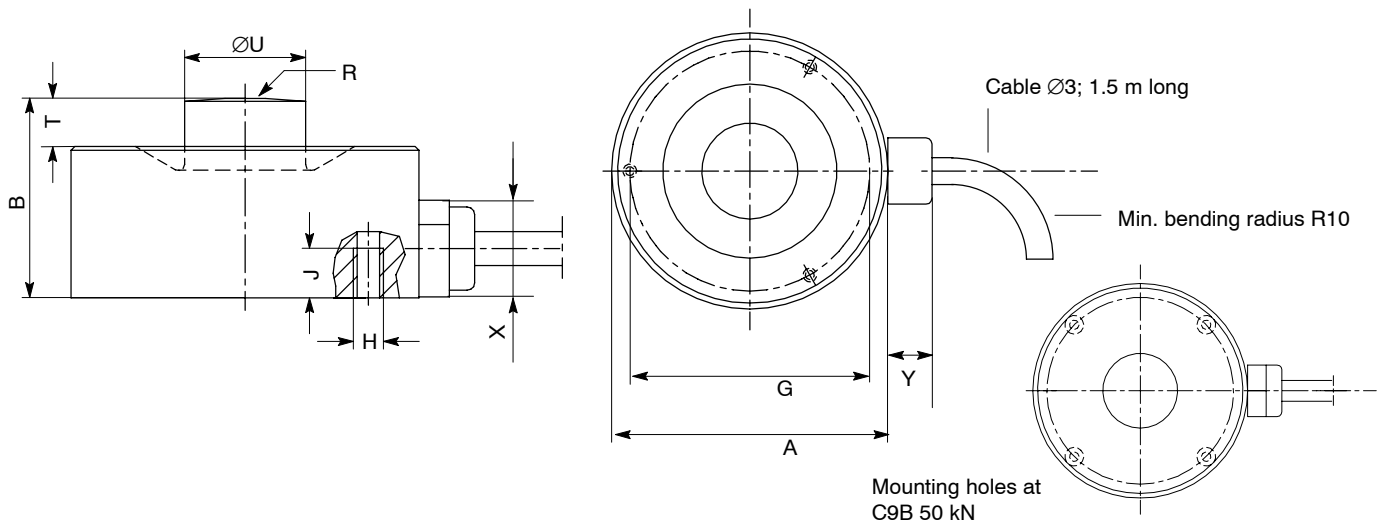
## Force Transducers



### Special features

- Compression force transducers in non-rusting material
- Nominal (rated) forces 50 N ... 50 kN
- Small size
- Accuracy class 0.5

Dimensions (in mm; 1 mm= 0.03937 inches)



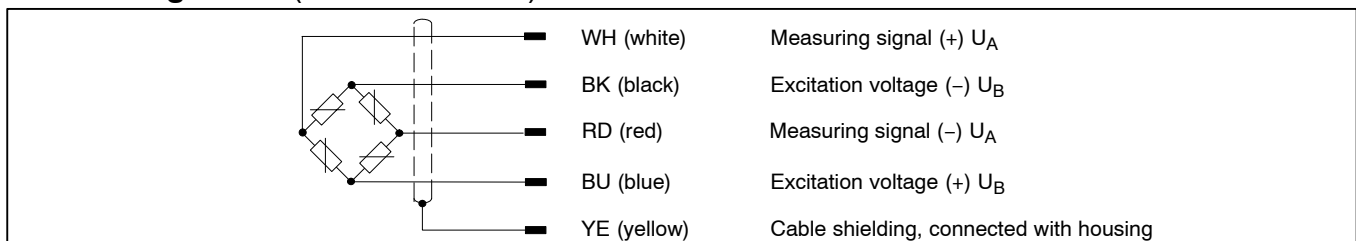
Nominal (rated) force C9B	A <sub>-0.1</sub>	B	G <sub>±0.1</sub>	H	J	R	T	U <sub>-0.1</sub>	X	Y
50 N – 200N	26	15	20.5	3xM3	6	20	2.5	5.5	approx..10.5	approx..5.5
0.5 kN...20 kN	26	13	22.75	3xM2	3.5	40	1	8	approx. 10.5	approx. 5.5
50 kN	46	28	40	4xM4	6	80	8	16	approx. 10.5	approx. 5.5

## Specifications

Type			C9B												
Nominal (rated) force	N		50	100	200										
	kN					0.5	1	2	5	10	20	50			
Accuracy class			0.5												
Nominal (rated) sensitivity	$C_{nom}$	mV/V	1												
Rel. sensitivity deviation	$d_c$	%	$\leq 1$												
Temperature effect on the sensitivity, per 10 K in the nominal (rated) temperature range in the service temperature range	$TK_C$	%	$\leq \pm 0.5$												
		%	$\leq \pm 0.8$												
Temperature effect on the zero signal, per 10 K in the nominal (rated) temperature range in the service temperature range	$TK_0$	%	$\leq \pm 0.5$												
		%	$\leq \pm 0.8$												
Linearity			$\leq \pm 0.5$												
Rel. reversibility error	U	%	$\leq \pm 0.5$												
Rel. repeatability error without rotation			$\leq \pm 0.5$												
Creep at nominal (rated) force and reference temperature over 30 min	$d_{crF+E}$	%	$\leq \pm 0.2$												
Input resistance blk–blu at reference temperature	$R_e$	$\Omega$	$> 345$												
Output resistance red–whi at reference temperature	$R_a$	$\Omega$	300–400												
Insulation resistance	$R_{Is}$	G $\Omega$	$> 1$												
Service range of supply voltage	$B_{U,G}$	V	0.5...12												
Reference supply voltage	$U_{ref}$	V	5												
Reference temperature	$t_{ref}$	$^{\circ}C$	+23 ( $[^{\circ}F]$ )												
Nominal (rated) temperature range	$B_{t,nom}$	$^{\circ}C$	-10...+70 ( $[^{\circ}F]$ )												
Service temperature range	$B_{t,G}$	$^{\circ}C$	-30...+85 ( $[^{\circ}F]$ )												
Storage temperature range	$B_{t,S}$	$^{\circ}C$	-30...+85 ( $[^{\circ}F]$ )												
Protection to DIN EN 60 529			IP 67												
Nominal (rated) measurement displacement $\pm 15\%$	$S_{nom}$	mm	$< 0.1$			0.04		0.06	0.09	0.11	0.13				
Natural frequency $\pm 15\%$			kHz			7.3	10	15.7	3.5	5	7	13	15.1	20	12
Working force	$(F_G)$	%	300			120									
Breaking force	$(F_B)$	%	$> 500$			$> 400$									
Relative static side-force limit *)	$(F_Q)$	%	100			40									
Permissible vibration amplitude to DIN 50 100			%												
Weight, approx.			g			70					40				
Weight, approx.			g			65					260				
Cable length			m												
Cable length			1.5												

\*) referred to the 2 mm force introduction point above diaphragm

### Cable assignment (Four wire-circuit)



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.



measurement with confidence

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