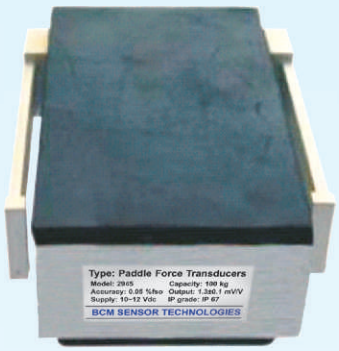
Model 2965
Paddle Force Transducers

Features

- paddle force
- made from aluminum with rubber plates
- range from 500 N to 1500 N
- accuracy up to 0.5 %fs
- environment protection up to IP 67



Applications

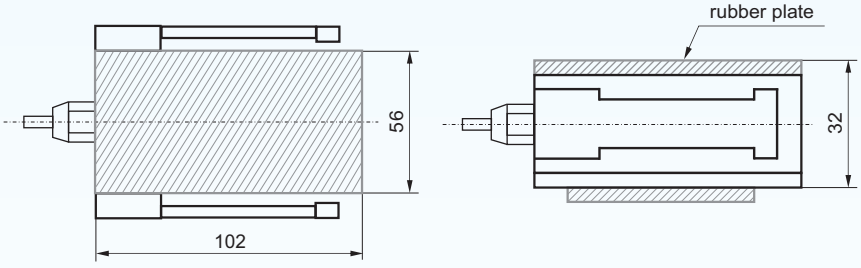
- paddle force measuring system
- compression force measurement

Description

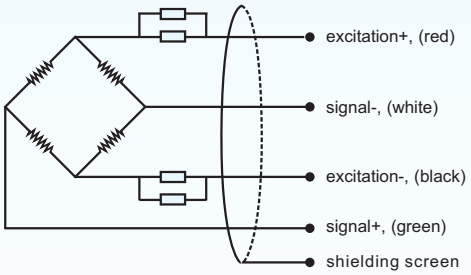
Based on BCM advanced strain gauge technology, model 2965 paddle force transducers are developed for application of compressive paddle force measurement in automotive industry. The transducer is made from aluminum alloy and integrated with two rubber plates. The special design in shape and dimensions allows the 2965 transducer to be easily installed in a paddle force measuring system.

The 2965 paddle force transducers possess 0.1%fs (fs = full scale) measuring accuracy for paddle force ranging from 500 to 1500 N. Thanks to BCM's leading technology in sealing process, the 2965 paddle force transducers can be made to IP 67 protection grade, and are suitable for applications in harsh industrial conditions.

Dimensions



Electrical Connection



BCM SENSOR TECHNOLOGIES BVBA

Industriepark Zone 4, Brechtsebaan 2
B-2900 Schoten - Antwerpen, BELGIUM

Tel.: +32-3-238 6469
Fax: +32-3-238 4171

website: www.bcmsensor.com
email: sales@bcmsensor.com

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Technical Data

parameters	units	specifications	
capacity	N	500, 1000, 1500	
safe load limit	%fs	150	
ultimate overload	%fs	200	
output sensitivity at fs	mV/V	1.3 ± 0.1	
zero unbalance	%fso	± 1	
non-linearity	%fs	± 0.05	± 0.1 (standard)
hysteresis	%fs	± 0.05	± 0.1
repeatability	%fs	± 0.05	± 0.1
creep error (30 min.)	%fs	± 0.05	± 0.1
excitation (supply voltage)	Vdc	10	
max. excitation voltage	Vdc	12	
input resistance	Ω	520 ± 10	
output resistance	Ω	500 ± 10	
insulation resistance	MΩ	≥ 5000@50 Vdc	
storage temp. range	°C	-35 ~ +80	
operating temp. range	°C	-30 ~ +70	
compensated temp. range	°C	-10 ~ +60	
temp. coefficient of sensitivity	%fs/°C	± 0.005	
temp. coefficient of zero	%fs/°C	± 0.005	
load cell body material		mild steel	
sealing		potted	
mechanical interface		refer to the dimensions on the datasheets	
electrical interface		Φ5.7mm, 4-conductor shielded cable, PVC jacket, 5 m	
environment protection		IP 66 (standard), IP 67	
unit weight	kg	to be confirmed when order	

The listed specifications are subject to change without prior notice.

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Ordering Information

pos.1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6	pos. 7	pos. 8	pos. 9	pos. 10
position (pos.) 1: model 2965: made from aluminum alloy									
	pos. 2: capacities 500 N 1000 N 1500 N								
		pos. 3: output sensitivity 1.3 mV/V							
			pos. 4: non-linearity or accuracy class 0.05 %fs 0.1 %fs (standard)						
				pos. 5: bridge resistance 500 Ω (Rin = 520 ± 10 Ω, Rout = 500±10 Ω)					
					pos. 6: mechanical interface Refer to the dimensions on the datasheets. Pos. 6 can be omitted from the ordering code.				
						pos. 7: electrical interface cable, code = diameter(Φ)/number of conductors/cable jacket/cable length 5.7/4/PVC/5 = Φ5.7 mm, 4-conductors shielded, PVC, length = 5*m			
							pos. 8: environment protection IP 66 (standard) IP 67		
								pos. 9: accessories for installation N = NA**. In case of "NA", pos.9 can be omitted.	
									pos. 10: customized spec's When any customized spec's are required, the customer needs to add "C" as the last parameter in the ordering code, and specifies the wished spec's on his order clearly. The customized spec's needs to be confirmed in advance by BCM's sales representative. Code "C" can be omitted if no customized spec's are required.

*: This value can also be a customized value.
**: NA = not available or not applicable

example: 2965-500N-1.3mV/V-0.1%fs-500Ω-5.7/4/PVC/5-IP66-C

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ISO9001 Certified Company

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