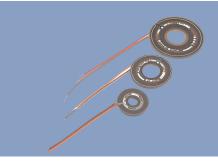




Resistance Elements up to 355°

Series PRS



Special features

- suitable for mounting in small fitting conditions
- easy mounting by bonding (silicone free)
- outstanding linearity
- very long live

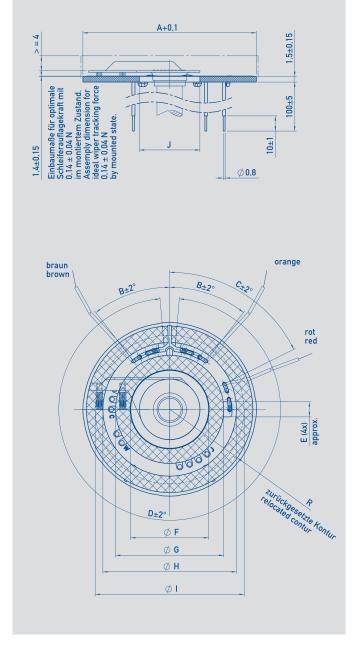
Rotary resistance elements paired with an appropriate wiper, but not completed with a housing (open systems) are suitable for installation in closed devices, which allows only small fitting conditions.

The installation is easy: The resistance element is centred via the internal diameter and an axially supporting surface in right situation to the wiper and is fastened by bonding.

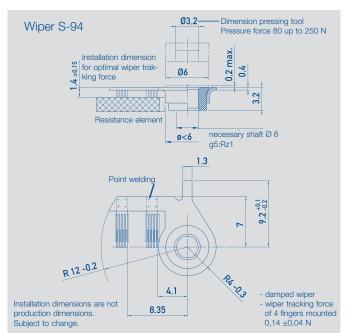
In addition, the stated distance between the wiper carrier and the resistance element must be adhered to. Thus ensure the necessary wiper tracking force as well as the operatibility and durabilit.

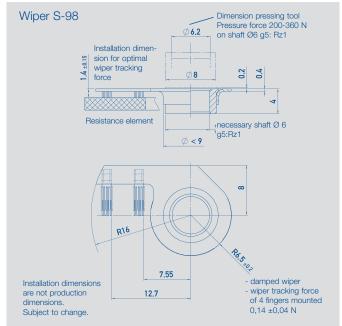
As standard sizes are available PRS25 paired with wiper S-94, PRS45 paired with wiper S-98 and PRS65 paired with wiper S-152.

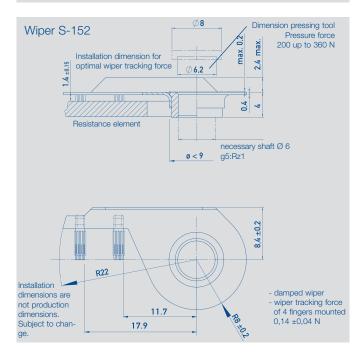
Resistance elements in other designs, measuring range and wire lengths on request.



Description				
Substrate	glas filled epoxy conductive plastic precious metal multi-finger wiper			
Resistance element and collector				
Wiper				
Electrical connections	PTFE-isolated wipers, AWG 32, 0.034 mm ²			







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Type designations	PRS25 A502	PRS45 A502	PRS65 A502	
Electrical Data				
Electrical range (dimension D)	345	350	355	±2°
Defined electrical range	339	344	349	±2°
Total resistance	5			kΩ
Resistance tolerance	±20			%
Independent linearity	0.20	0.15	0.10	±%
Repeatability	0.01			۰
Recommended operating wiper current	≤ 1			ДЦ
Max. wiper current in case of mulfunction	10			mA
Max. permissible applied voltage	42			V
Temperature coefficient of the output-to-applied voltage ratio	5 typ.			ppm/K
Imsulation resistance (500 VDC)	> 10			ΜΩ
Mechanical Data (nominal dimension)				
Dimension A	25.2	34.0	45,86	Ø ±0.1 mm
Dimension B	76	50	37	° ±2°
Dimension C	165	123	65	° ±2°
Dimension D	345	350	355	° ±2°
Dimension E 4 x ca.	3	4	5	mm
Ø Dimension F	8	14.7	20.6	mm
Ø Dimension G	11.8	18.6	28.6	mm
Ø Dimension H	16.4	25	35.3	mm
Ø Dimension I	20.2	28.9	39.4	mm
Ø Dimension J	7.6 +0.04	14.4 +0.04	16 +0.05	mm
Dimension R	12.5	16.9	22.8	mm
Environmental Data				
Temperature range	-40 +100			°C
Life	100 x 10 ⁶			movements

Order designations Art.-No. Type Art.-No. PRS25 A502 065111 paired with wiper S-94 070137 PRS45 A502 065114 paired with wiper S-98 070138 PRS65 A502 065115 paired with wiper S-152 070139

Important

All values specified in this data sheet for linearity, lifetime and temperature coefficient are only valid for a sensor used as a voltage divider with virtually no load applied to the wiper $(l_e \le 1 \ \mu A)$.