

BAR-GAUGES

Product Code	Total Length, mm (inch)	Active Length, mm (inch)	Width, mm (inch)	Lead Attachment	Thickness, mm (inch)	Resistance, Ω @ 25°C	Gauge Factor	TCGF % change per 56°C/100°F temperature variation	TCR
SS-027-013-500 P	0.686 (0.027)	0.330 (0.013)	0.229 (0.009)	Ball Bond	0.010 (0.0004)	540±50	155±10	-18%	24%
SS-037-022-500 P	0.934 (0.037)	0.559 (0.022)	0.229 (0.009)	Ball Bond	0.010 (0.0004)	540±50	150±10	-13%	17%
SS-060-033-500 P	1.524 (0.06)	0.838 (0.033)	0.203 (0.008)	Welded	0.010 (0.0004)	540±50	140±10	-13%	15%
SS-060-033-750 P	1.524 (0.06)	0.838 (0.033)	0.203 (0.008)	Welded	0.010 (0.0004)	750±90	145±10	-15%	18%
SS-060-033-1000 P	1.524 (0.06)	0.838 (0.033)	0.203 (0.008)	Welded	0.010 (0.0004)	1050±75	155±10	-18%	24%
SS-080-050-120 P	2.032 (0.08)	1.27 (0.05)	0.203 (0.008)	Welded	0.010 (0.0004)	120±20	120±10	-9%	5%
SS-080-050-230 P	2.032 (0.08)	1.27 (0.05)	0.203 (0.008)	Welded	0.010 (0.0004)	230±30	120±10	-9%	5%
SS-080-050-345 P	2.032 (0.08)	1.27 (0.05)	0.203 (0.008)	Welded	0.010 (0.0004)	345±40	140±10	-13%	16%
SS-080-050-500 P	2.032 (0.08)	1.27 (0.05)	0.203 (0.008)	Welded	0.010 (0.0004)	540±50	140±10	-13%	16%
SS-080-050-500 P	2.032 (0.08)	1.27 (0.05)	0.203 (0.008)	Ball Bond	0.010 (0.0004)	540±50	140±10	-13%	16%
SS-080-050-1000 P	2.032 (0.08)	1.27 (0.05)	0.203 (0.008)	Welded	0.010 (0.0004)	1050±75	155±10	-18%	24%
SS-090-060-500 P	2.286 (0.09)	1.524 (0.06)	0.203 (0.008)	Welded	0.010 (0.0004)	540±50	140±10	-13%	16%
SS-090-060-1150 P	2.286 (0.09)	1.524 (0.06)	0.203 (0.008)	Welded	0.010 (0.0004)	1125±75	155±10	-18%	24%

HAPTICA S.r.l.

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SS-150-124-15 P	3.81 (0.15)	3.145 (0.124)	0.203 (0.008)	Welded	0.025 (0.0010)	15±2	100±10	-10%	6%
SS-150-124-25 P	3.81 (0.15)	3.145 (0.124)	0.203 (0.008)	Welded	0.023 (0.0009)	25±3	100±10	-10%	6%
SS-150-124-30 P	3.81 (0.15)	3.145 (0.124)	0.203 (0.008)	Welded	0.020 (0.0008)	30±3	100±10	-10%	6%
SS-150-124-40 P	3.81 (0.15)	3.145 (0.124)	0.203 (0.008)	Welded	0.018 (0.0007)	40±4	100±10	-10%	6%
SS-250-225-120 P	6.35 (0.25)	5.715 (0.225)	0.229 (0.009)	Welded	0.010 (0.0004)	120±20	100±10	-10%	6%

Standard gauge specification			
Materials	Operating strain	Linearity	Operating temperature
Doped Silicon, single crystal	+/- 3000 $\mu\text{m}/\text{m}$ (standard); +/- 9000 $\mu\text{m}/\text{m}$ (special)	better than +/- 0.25% to 600 $\mu\text{m}/\text{m}$; better than 1.5% to 1500 $\mu\text{m}/\text{m}$	260 °C (standard)

IF YOU USE MORE THAN ONE GAUGE IN COMBINATION, MINIMIZE THERMAL IMBALANCE AND DRIFT BY SELECTING SETS OF THERMALLY MATCHED GAUGES

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Standard matching	
Temperature	% of base resistance
-18 °C	+/- 0.6%
25 °C	+/- 0.4%
135 °C	+/- 0.4%

MIL SPEC MATCHING TO TIGHTER TOLERANCE AND ADDITIONAL TEMPERATURE POINTS AVAILABLE

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