

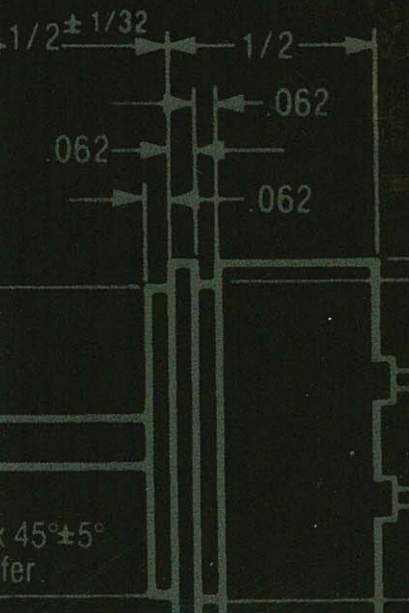
Standard Precision MKV Potentiometers

Honeywell

Position Measurement Sensor
F78S, F78C, F78B, F78E



SPACE AGE SENSORS FOR DOWN TO EARTH NEEDS





TYPE NUMBER

F78S

F78C

F78B

F78E

Electrical Parameters

Independent Linearity-Standard	± 1.0%, ± 0.5% ± 0.25%	± 1.0%, ± 0.5%, ± 0.25%	± 1.0, ± 0.5%, ± 0.25%	± 1.0, ± 0.5%, ± 0.25%
Total Resistance (ohms) (Including Specials)	500 to 200K	500 to 200K	500 to 200K	500 to 200K
Resistance Tolerance - Standard	± 10%	± 10%	± 10%	± 10%
Theoretical Electrical Travel	340	340	340	340
Power Rating @70°C (watts)	1.0	1.0	1.0	1.0
Output Smoothness per MIL-R-39023	0.5%, 0.25%, 0.15%	0.5%, 0.25%, 0.15%	0.5%, 0.25%, 0.15%	0.5%, 0.25%, 0.15%
End Voltage (max) (% of total applied voltage)	1.0%	1.0%	1.0%	1.0%
D c Withstanding Voltage (RMS)	750	750	750	750
Insulation Resistance (min)	1000 megohms	1000 megohms	1000 megohms	1000 megohms
Resolution (virtually infinite)	yes	yes	yes	yes

Mechanical Parameters

Mechanical Travel	360°	360°	360°	360°
Mounting Type	servo	servo	bushing	bushing
Bearing Type	ball	sleeve	sleeve	sleeve
Mounting Thread	n/a	n/a	3/8-32 NEF	1/4-32 NEF
Stop Strength (nominal)	n/a	n/a	n/a	n/a
Weight (max)	16 grams	16 grams	16 grams	16 grams
Life Expectancy (cycles)	20,000,000	10,000,000	10,000,000	10,000,000
Torque (oz-in max)	0.5	1.0	1.0	1.0
End Play (max)	0.005	0.005	0.005	0.005
Shaft Diameter (inches)	1/8 or 1/4	1/8 or 1/4	1/8 or 1/4	1/8

Environmental Data

Shock	per MIL-STD-202	per MIL-STD-202	per MIL-STD-202	per MIL-STD-202
Vibration	per MIL-STD-202	per MIL-STD-202	per MIL-STD-202	per MIL-STD-202
Temperature Range (operational)	-65°C to + 125°C	0°C to + 125°C	0°C to + 125°C	0°C to + 125°C
Temperature Range (storage)	-65°C to + 125°C	-65°C to + 125°C	-65°C to + 125°C	-65°C to + 125°C

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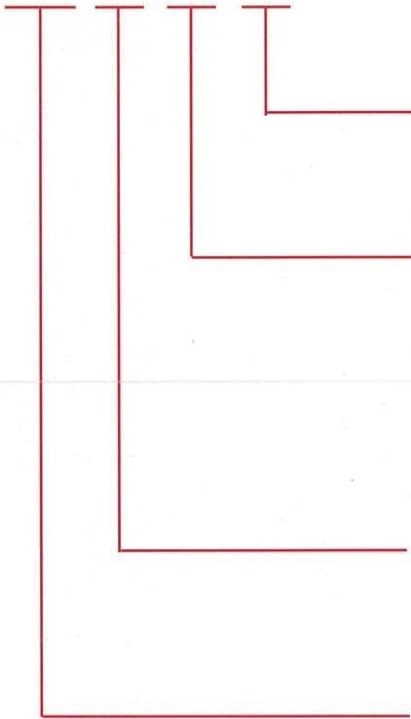
F78S, F78C, F78B, F78E

ORDERING INFORMATION

(F78S, F78C, F78B, F78E)

Example:

F78S A 103



Shaft Diameter
• Blank-1/8" MKV
• B1-1/4" MKV,
except F78E

Standard Resistances
500 = 501
1,000 = 102
2,000 = 202
5,000 = 502
10,000 = 103
20,000 = 203
50,000 = 503
100,000 = 104

Linearity
A = $\pm 1.0\%$
B = $\pm 0.5\%$
C = $\pm 0.25\%$

Type Number

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