Honeywell

Model S3C DC-DC



Miniature Displacement Transducer

DESCRIPTION

Model S3C (captive guided spring return armature) dc-dc miniature displacement transducer is ideally suited for multi-point applications with space constraints and provide a cost-effective

alternative to larger, more expensive units. This model is compatible with dc data logging equipment used for taking readings from strain gages or other dc operated transducers.

FEATURES

- Miniature design
- Cost efficient
- 0.25 % non-linearity
- Stainless steel construction
- ±0.1 in to ±0.4 in range
- Infinite resolution
- Single or dual supply wiring (field selectable)
- Captive guided spring return armature
- Not RoHS compliant

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PERFORMANCE SPECIFICATIONS

Characteristic	Measure	
Stroke range	±2,54 mm to 10,16 mm [±0.1 in to 0.4 in]	
Non-linearity (max.)	±0.25 % full scale	
Output impedance	2 ohm	
Output load (min.)	2000 ohm	
Output sensitivity	±5 Vdc or 0 Vdc to 10 Vdc (field selectable)	
Resolution	Infinite	

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	-50 °C to 70 °C [-58 °F to 158 °F]
Temperature effect, zero (max.)	0.006 % full scale/°F
Temperature effect, span (max.)	0.017 % full scale/°F

ELECTRICAL SPECIFICATIONS

Characteristic	Measure	
Element type	dc-dc displacement transducer	
Power supply, single	24 Vdc to 40 Vdc @ 30 mA	
Power supply, dual	±12 Vdc to ±20 Vdc @ 30 mA	
Electrical termination	Multiconductor shielded cable (1.83 m [6 ft])	

MECHANICAL SPECIFICATIONS

Characteristic	Measure	
Case material	Stainless steel	
Probe material	Stainless steel	
Armature type	Captive guided spring return	
Probe thread	Not applicable	
Weight	82,5 g [2.91 oz]	

RANGE CODES

Range Code	Available ranges	
НМ	±2,54 mm [±0.1 in]	
HN	±5,08 mm [±0.2 in]	
HF	±7,62 mm [±0.3 in]	
HG	±10,16 mm [±0.4 in]	

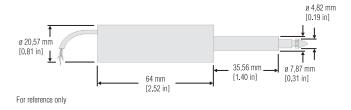
OPTION CODES

Range Code	Many range/option combinations are available in our quick-ship and fast-track manufacture programs. Please see http://sensing.honeywell.com/TMsensor-ship for updated listings.	
Stroke ranges	±5,08 mm [±0.2 in], ±2,54 mm [±0.1 in], ±7,62 mm [±0.3 in], ±10,16 mm [±0.4 in]	
Electrical termination	Multiconductor shielded cable (1.83 m [6 ft]) 6a. Bendix PTIH-10-6P right angle Bendix	
Electrical cable orientation	Ra. Right angle	
Mounting threads	13a. 1/2-20 UNF 13f. 3/8-32 UNF	
Improved linearity	L10. 0.1 % on some models	

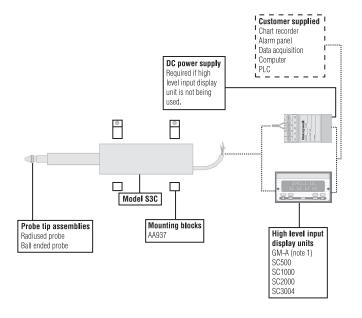
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MOUNTING DIMENSIONS



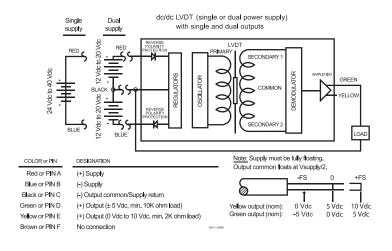
TYPICAL SYSTEM DIAGRAM



WIRING CODES

Wire color	Dual supply	Single supply (floating)*	Outputs
Red	12 V to 20 V input	24 V to 40 V input	_
Blue	-12 V to -20 V input	Supply negative	-
Black	OV, I/P, O/P com- mon	_	_
Yellow	_	_	0 V to 10 V
Green	_	_	±5 Vdc

^{*} Output common floats at voltage source/2



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NOTES

 GM-A should not be used with an amplified displacement transducer unless using an external power supply to power the displacement transducer.

Find out more

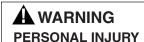
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Sensing and Control Honeywell 1985 Douglas Drive North Golden Valley, MN 55422 Miniature Displacement Transducer

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 DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

A WARNING MISUSE OF DOCUMENTATION

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- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.



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