

Displacement Transducers

Solatron DC-LVDT Displacement Transducers - Spring Return 5mm & 10mm Stroke.

Types DG2.5 and DG5.

DECADE

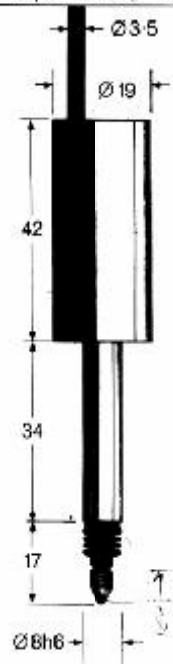
PRODUCT TYPE

Measuring Range

Dimensions in mm. Do not scale.
Dimensions to tip shown at
electrical zero.

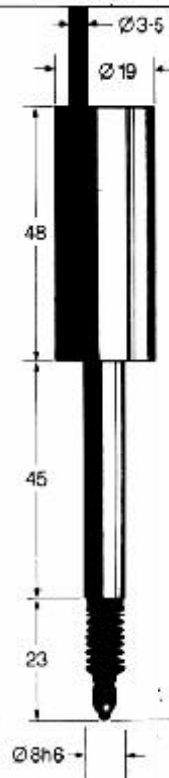
DG 1 / DG 2.5

± 1mm / ± 2.5mm



DG 5

± 5mm



SPECIFICATION

Mechanical

Maximum stroke	5.9mm	10.9mm
Spring rate	13g/mm	10g/mm
Force at electrical zero	90g	105g
Non-repeatability Typical	<0.15µm	<0.01µm
Temperature range	-20 to +80°C	-20 to +80°C
Temperature coefficient Typical		
Zero	<0.01%FS/°C	<0.005%FS/°C
Sensitivity	<0.005%FS/°C	<0.01%FS/°C
Non-linearity better than	0.1, 0.3, 0.5%	0.3, 0.5%
Pre-travel adjustment	N/A	N/A
Gaiter Std.	Nitrile	Nitrile

Electrical

LVDT type	Calibrated at 10V dc into 20kΩ	
Current	10mA	13mA
Input/output phase shift	N/A	N/A
Zero phase frequency	N/A	N/A
Sensitivity, typical	780mV/V/mm	560mV/V/mm
Input voltage range	10 to 24V dc	10 to 24V dc
Output ripple	<1% fsd	<1% fsd
Response time constant	1.5 milliseconds	1.5 milliseconds
Frequency response	100Hz for -3dB	100Hz to -3dB

For Accessories see Page G12

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Connection Details on 9D plug

Pin 1: + signal
Pin 2: - signal
Pin 3: screen drain wire
Pin 4: + 10v DC.
Pin 5: ground
Pin 6: no connection
Pin 7: no connection
Pin 8: no connection
Pin 9: no connection
Metal Shell is screen connection.

