

# DC-DC Long Stroke LVDTs

## Models JEC and JEC-AG

STAINLESS STEEL

VOLTAGE REGULATION

REVERSE POLARITY PROTECTED



Model JEC Free Unguided



Model JEC-AG Captive Guided Spring Return

SENSOTEC'S Models JEC (free unguided armature) and JEC-AG (captive guided spring return) DC-DC Long Stroke LVDTs utilize an improved internal circuit which incorporates both reverse polarity protection and voltage regulation. These features eliminate the danger of permanent damage if supply voltage is accidentally reversed, and ensure that sensitivity will remain constant over large variations in supply voltage. These models require no further conditioning, thus permitting easy operation. Model JEC-C (captive guided armature) provides stroke ranges to 18.5" and is presented on the next page.

PERFORMANCE

ENVIRONMENTAL

ELECTRICAL

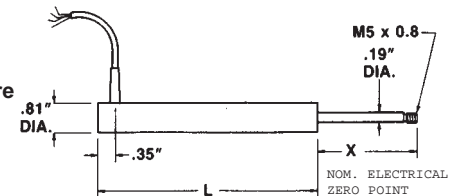
MECHANICAL

	Model JEC Order Code AY321	Model JEC-AG Order Code AY322
Stroke Ranges.....	±0.5" to 8"	±0.5" to 3"
Non-linearity (max).....	±0.25% F.S.	±0.25% F.S.
Output (field selectable).....	±5VDC or 0-10 VDC	±5VDC or 0-10 VDC
Resolution .....	Infinite	Infinite
Temperature, Operating.....	-58° F to 158° F	-58° F to 158° F
Temperature Effect		
- Zero (max).....	.006% F.S./°F	.006% F.S./°F
- Span (max).....	.017% Rdg./°F	.017% Rdg./°F
Element Type.....	DC-DC LVDT	DC-DC LVDT
Power Supply (@ 30mA)		
- Single Supply.....	24 to 40 VDC	24 to 40 VDC
- Dual Supply.....	±12 to ±20 VDC	±12 to ±20 VDC
Output Impedance.....	2 ohms	2 ohms
Output Load (min.).....	2K ohms w/3-wire supply, 20K ohms w/floating supply	2K ohms w/3-wire supply, 20K ohms w/floating supply
Output Ripple.....	30mv peak to peak	30mv peak to peak
Reverse Polarity Protection.....	Yes	Yes
Wiring Code (std).....	#31	#31
Electrical Termination	Multiconductor shielded cable (6 ft.)	Multiconductor shielded cable (6 ft.)
Case Material.....	Stainless steel	Stainless steel
Probe Material.....	Stainless steel	Stainless steel
Armature Type.....	Free unguided	Captive guided spring return
Probe Thread.....	M5 x 0.8	N/A
Spring Force (max).....	N/A	4 oz./in.

### Dimensions

Model JEC (Order Code AY321) Replaces Model MDL

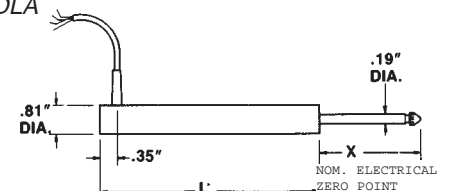
Range Code	Stroke Ranges	L"	X"	Body	Armature	Approx. Weights (oz.)
HP	±0.5"	6.9	1.7	7.5	1.0	
HQ	±1.0"	7.9	2.7	9.5	2.0	
HR	±2.0"	12.5	3.2	13.0	2.5	
HS	±3.0"	16.9	4.7	17.5	3.0	
HT	±4.0"	18.6	5.2	22.0	3.5	
HU	±6.0"	26.1	7.2	30.0	4.0	
HV	±8.0"	33.6	10.2	44.0	5.0	



Model JEC Free Unguided

Model JEC-AG (Order Code AY322) Replaces Model DLA

Range Code	Stroke Ranges	L"	X"	Unit	Approx. Wt. (oz.)
HP	±0.5"	7.5	1.5	8.0	
HQ	±1.0"	8.25	2.5	10.0	
HR	±2.0"	12.85	3.0	14.0	
HS	±3.0"	17.25	4.5	18.0	



Model JEC-AG Captive Guided Spring Return



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