

1500-series

Linear position sensor 10-40mm



Designed for a variety of miniature-sized accurate position feedback applications, the 1500 Series Linear Position Sensor Module is ideally suited for use where reliability in a harsh operating environment is a primary consideration.

Use in industrial, vehicular, appliance, machine tool, and robotic applications is benefited by the unit's features that include high temperature-stable materials, and a durable spring-loaded design to returns shaft to extended position.

The 1500 Series is available in three standard strokes and provides excellent long life (up to 1 000 000 cycles); resistance, voltage and linearity characteristics.

- Compact
- Returning spring
- Large temperature span
- Good performance/price ratio

SPECIFIKATIONER	
Supply voltage	< 15 VDC
Output	Potentiometer
Resolution	Near infinite
Repeatability	0,002 mm
Operating speed	≤ 5 m/s
Wiper current	
Recommended	< 1 μA
Failing point	10 mA
Temperature	
Operating	-55°C ... +135°C
Material	
Housing	Aluminum
Sensor rod	Stainless steel AISI 303
Vibration	20 G
Shock	50 G
Protection class	IP 55
Wiper dragging force	0,5 N
Life time	1x10 ⁶ slag*
*Performance may change during life time	

Model	1510	1525	1540
Active electric stroke (A.E.) (mm)	10,2	25,4	40,4
Mechanical stroke (M.T.) (mm)	12,2	27,4	42,4
Resistance (T.E.) ±20% (kΩ)	1,3	3,4	6,0
Linearity over active stroke (±%FS)	0,2	0,2	0,2
Dissipation at 70°C (W)	0,25	0,5	0,75
Max voltage (V)	12	30	60
Housing lenght (B) (mm)	33,4	48,5	63,5
Total lenght (A) (mm)	63	97	130

2015-09-11, specifications subject to change without notice

ISO 9001
BUREAU VERITAS
Certification



REGAL COMPONENTS AB • LEFFLERSGATAN 1 • SE-754 50 UPPSALA • SWEDEN
+46 (0)18-65 70 00 • WWW.REGAL.SE • INFO@REGAL.SE

Regal

