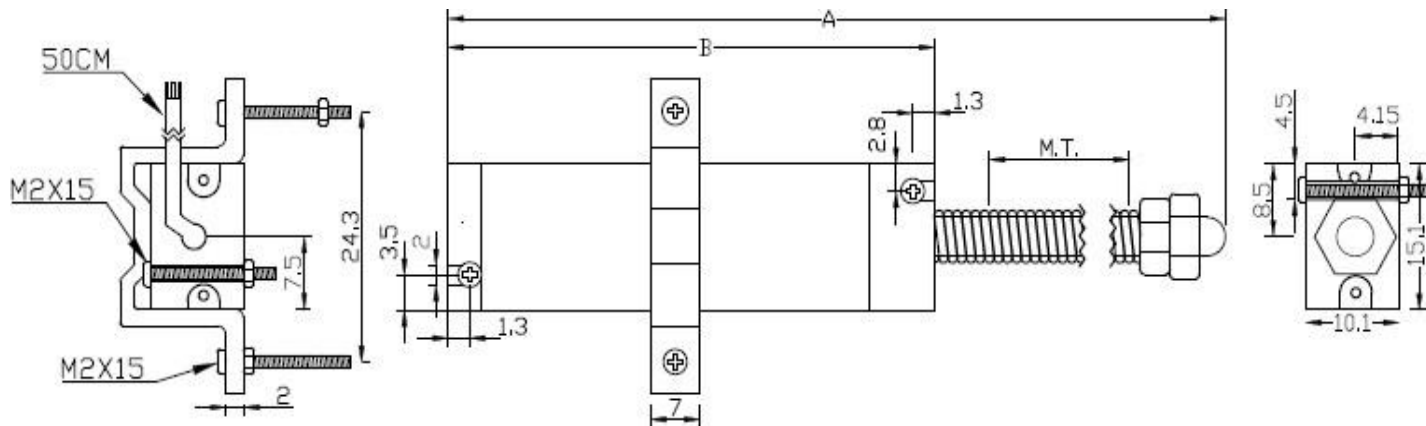


Position Transducers with Restoring Spring

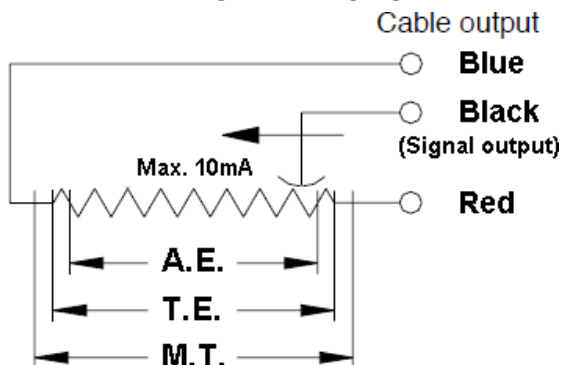
The 15 series spring return linear motion sensor is low cost and is suited for a variety application requiring a miniaturized solution. An integral element and wiper assembly assures smooth, noise free travel over the unit. Careful selection of the materials and high-quality components used in 15 Series potentiometers ensure consistent measurement and reliable operation throughout the service life of the sensor. 15 series offer a highly ruggedized design. It is reliable in a harsh environment and in limited space.



MECHANICAL DIMENSIONS: (Unit : mm)



ELECTRICAL CONNECTIONS:



ACCESSORIES:

STANDARD:

Ball screw nut, 2 (screw) nuts, 2 screws

ON REQUEST:

□ mounting kit, 2 (screw) nuts, 2 screws

ELECTRICAL / MECHANICAL DATA

15 series	model	25	40
Useful electrical stroke (A.E.)	mm	25.4	40.4
Resistance (T.E) $\pm 20\%$	K Ω	3.4	6.0
Independent linearity (within A.E.)	$\pm \%$	0.2	0.2
Mechanical stroke (M.T.)	mm	27.4	42.4
Case length (B)	mm	48.5	63.5
Total length (A)	mm	97	130
Resolution		infinite	
Repeatability	mm	0.002	
Displacement speed	m/s	≤ 5 Standard	
Protection level		IP55	
Life		1×10^6 strokes	
Displacement force		0.5N	
Vibrations		5 - 2000Hz, Amax =0.75 mm amax. = 20 g	
Shock		50 g, 11ms	
Recommended cursor current	μ A	< 1	
Max. cursor current	mA	10	
Maximum applicable voltage	V	30	60
Electrical isolation	M Ω	>100	
Dielectric strength	μ A	< 100 @ 500V~, 50Hz, 2s, 1bar	
Dissipation at @70°C	W	0.5	0.75
Actual Temperature Coefficient \leq 5ppm/°C typical of the output voltage	ppm/°C	≤ 1 typical	
Working temperature	°C	-55-+135	
Material for transducer case		Anodised aluminium Nylon 66 G 25	
Material for pull shaft		Stainless steel AISI 303	
Mounting		2 (screw) nuts, 2 screws	