

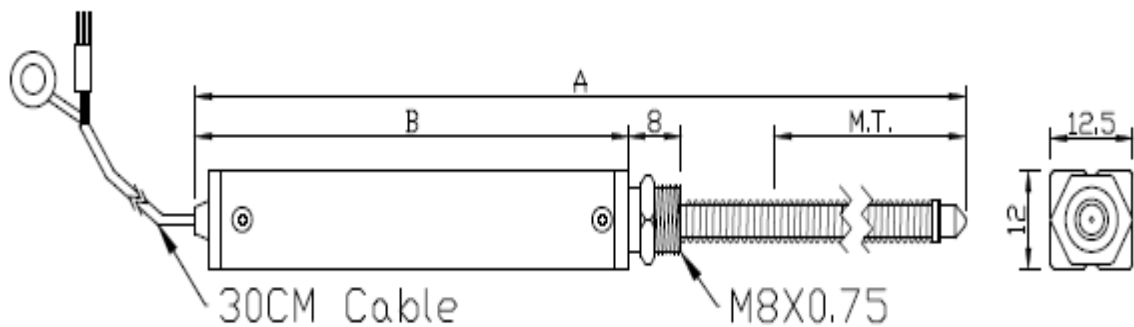
Position Transducers with Restoring Spring

The 15C/P series spring return linear motion sensor is high accuracy 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 15P/C Series potentiometers ensure consistent measurement and reliable operation throughout the service life of the sensor. 15P/C series offer a highly ruggedized design. Defined electrical range is 5mm to 55mm. It is reliable in a harsh environment and in limited space.

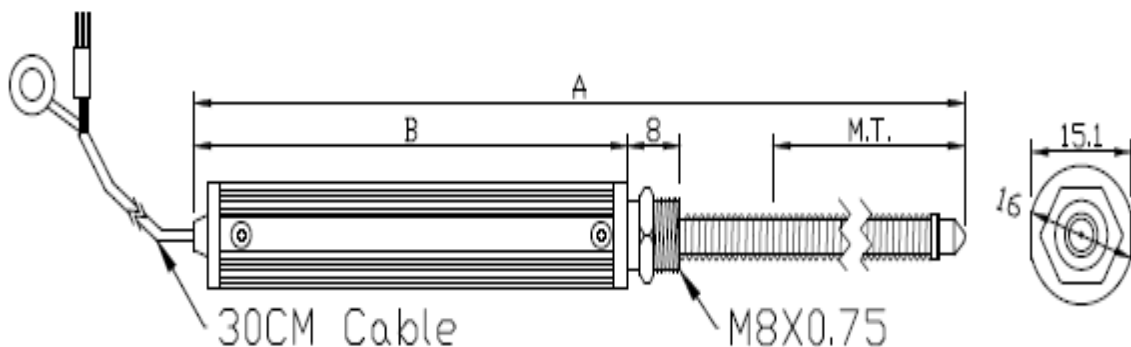


MECHANICAL DIMENSIONS: (Unit : mm)

15C

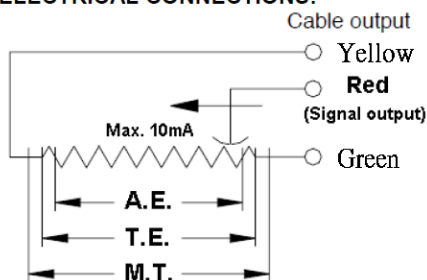


15P



ELECTRICAL CONNECTIONS:

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ELECTRICAL / MECHANICAL DATA

15C/P series	model	5	10	15	20	25	40	50	
Useful electrical stroke (A.E)	mm	5	10	15	20	25	40	50	
Resistance (T.E) ±20%	KΩ	2						5	
Independent linearity (within A.E.)	± %	0.1							
Mechanical stroke (M.T.)	mm	A.E.+3							
Case length (B)	mm	A.E.+28.8							
Total length (A)	mm	B X 2							
Resolution		infinite							
Repeatability	mm	0.01							
Displacement speed	m/s	≤ 5							
Protection level		IP65							
Life		1x10 ⁶ 次							
Displacement force		0.5N							
Vibrations		5 - 2000Hz, Amax =0.75 mm amax. = 20 g							
Shock		50 g, 11ms							
Recommended cursor current	μA	< 1							
Max. cursor current	mA	10							
Maximum applicable voltage	V	24						60	
Electrical isolation	MΩ	>100							
Dielectric strength	μA	< 100 @ 500V~ ,50Hz, 2s,1bar							
Dissipation at @70°C	W	0.5							
Actual Temperature Coefficient ≤ 5ppm/°C typical of the output voltage	ppm/°C	≤ 1							
Working temperature	°C	-55~+135							
Material for transducer case		Anodised aluminium Nylon 66 G 25							
Material for pull shaft		Stainless steel AISI 303							
Fixing		Screw bearing, nuts							