

Linear Transducers



KTC-KTF Series

Linear Motion Infinite Resolution Position Transducers

■ Ordering Code

KTC - 100 - 01

KTC'S MECHANICAL CONNECTION TYPE

01:KTC-01(Rod End Bearing)
02:KTC-02(Link Ball)

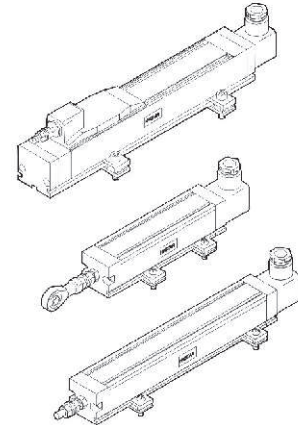
ELECTRICAL TRAVEL

75:75mm
100:100mm
150:150mm
225:225mm
300:300mm
375:375mm
450:450mm
525:525mm
600:600mm
750:750mm
900:900mm

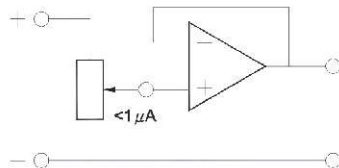
SERIES NUMBER

KTC:Rod Type.(Controlling rod in stainless steel.)
KTF:Rodless Type.

(Mounting kits, and DIN connector as standard with no extra cost.)



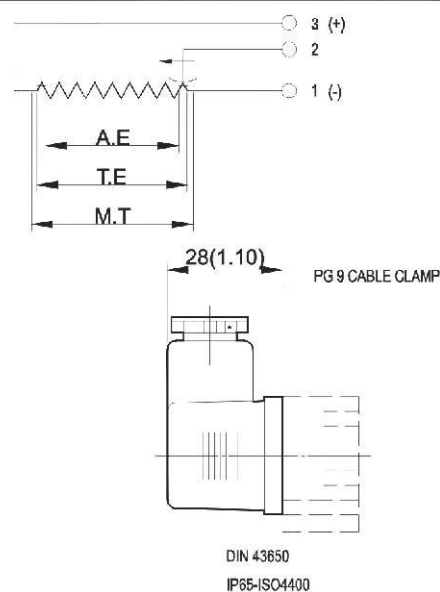
RECOMMENDED MEASUREMENT CIRCUIT



Important:

The published technical data are applicable only when the transducer is used correctly. The KTF & KTC linear position transducers must be used as voltage dividers with a maximum current in the cursor loop of 1 μA; should the system downstream require a higher current, an operational amplifier must be used as shown above.

ELECTRICAL CONNECTIONS



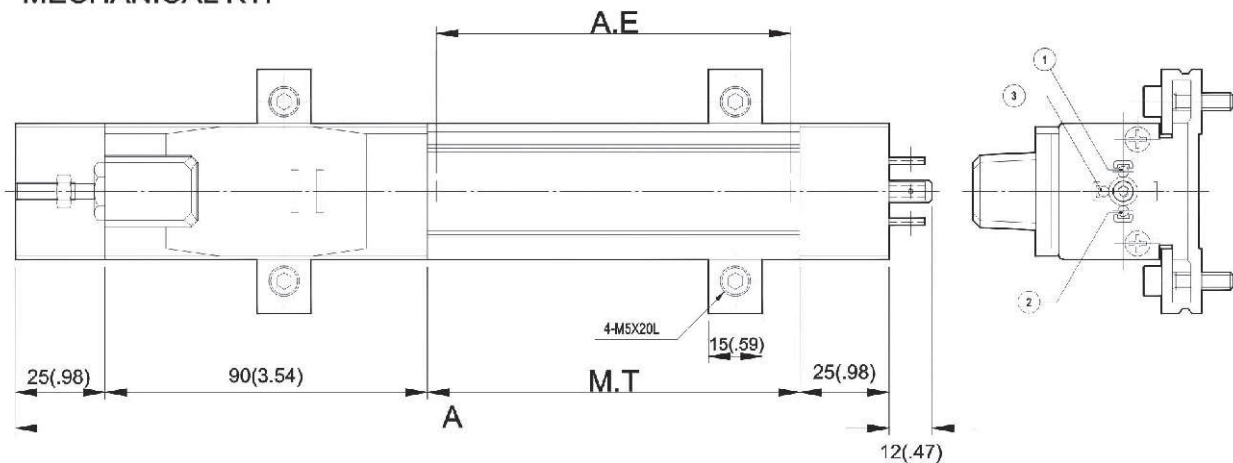
RATINGS

KTF Series		100	150	225	300	375	450	525	600	750	900	1000
Total Electrical Travel(T.E)	mm	102	152	229	305	381	457	533	610	762	914	1016
	(inch)	(4.02)	(5.98)	(9.02)	(12.01)	(15.00)	(17.99)	(20.98)	(24.02)	(30.00)	(35.98)	(40.00)
Active Electrical Travel(A.E)	mm	100	150	226	302	378	455	531	607	759	912	1013
	(inch)	(3.94)	(5.91)	(8.90)	(11.89)	(14.88)	(17.91)	(20.91)	(23.90)	(29.88)	(35.43)	(39.88)
Resistance $\pm 0\%$	K Ω	3.4	5.0	2.4	3.2	4.0	4.8	5.6	6.4	8.0	9.6	10.7
Independent Linearity	$\pm\%$	0.07	0.07	0.07	0.07	0.07	0.05	0.05	0.05	0.05	0.05	0.05
Mechanical Travel(M.T)	mm	104	155	231	307	384	460	536	612	765	917	1019
	(inch)	(4.09)	(6.10)	(9.09)	(12.09)	(15.12)	(18.11)	(21.10)	(24.09)	(30.12)	(36.10)	(40.12)
Resolution		infinite										
Recommended Cursor Current	μA	<1										
Temperature Range	$^{\circ}C$	-55~+125										
Dimensions A	mm	245	296	372	448	525	601	677	753	906	1058	1160
	(inch)	(9.65)	(11.65)	(14.65)	(17.64)	(20.67)	(23.66)	(26.65)	(29.65)	(35.67)	(41.65)	(45.67)

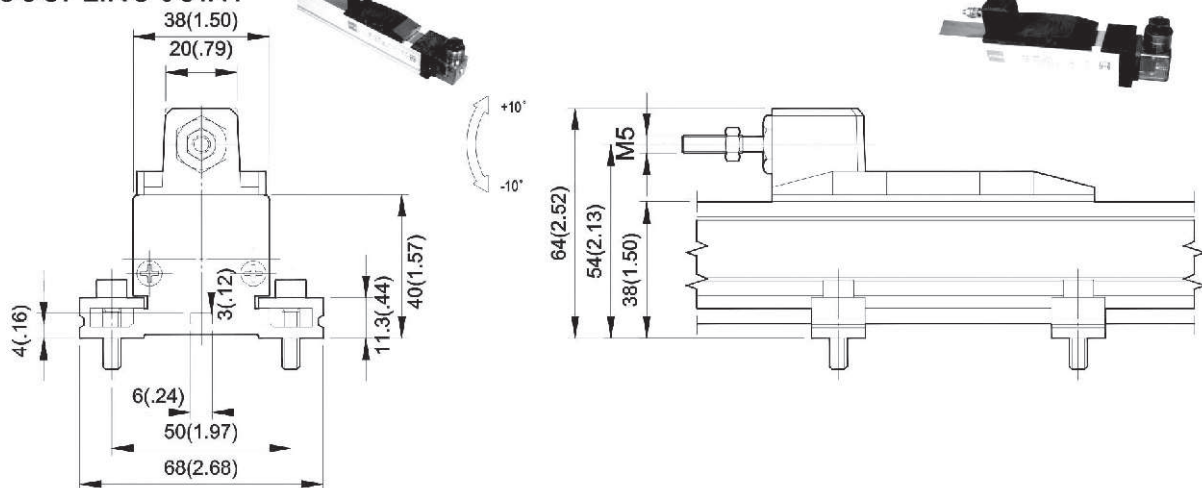
DIMENSIONS

mm(inch)

MECHANICAL KTF



COUPLING JOINT



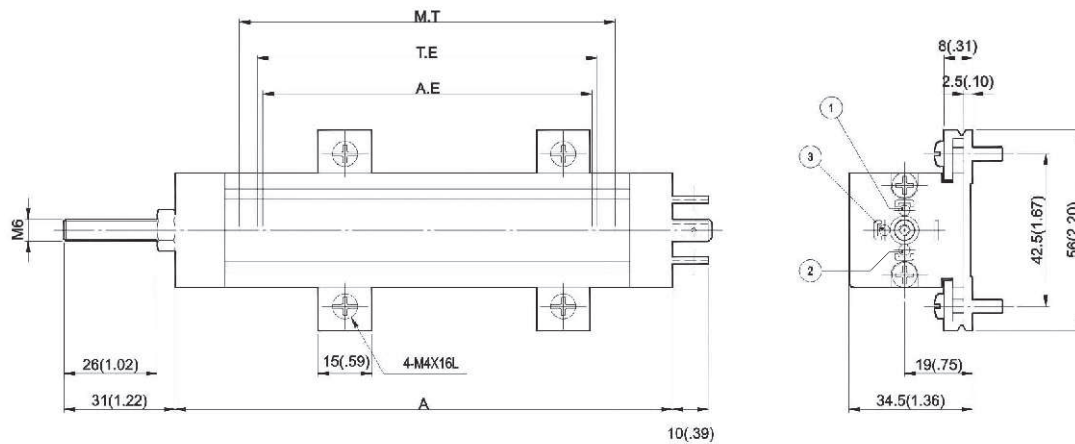
RATINGS

KTC Series		75	100	150	225	300	375	450	525	600	750	900
Total Electrical Travel(T.E)	mm (inch)	76 (2.99)	102 (4.02)	152 (5.98)	229 (9.02)	305 (12.01)	381 (15.00)	457 (17.99)	533 (20.98)	610 (24.02)	762 (30.00)	914 (35.98)
Active Electrical Travel(A.E)	mm (inch)	75 (2.95)	100 (3.94)	150 (5.91)	226 (8.90)	302 (11.89)	378 (14.88)	455 (17.91)	531 (20.91)	607 (23.90)	759 (29.88)	912 (35.91)
Resistance $\pm 20\%$	k Ω	2.5	3.4	5.0	2.4	3.2	4.0	4.8	5.6	6.4	8.0	9.6
Independent Linearity	$\pm \%$	0.07	0.07	0.07	0.07	0.07	0.07	0.05	0.05	0.05	0.05	0.05
Mechanical Travel(M.T)	mm (inch)	79 (3.11)	104 (4.09)	155 (6.10)	231 (9.09)	307 (12.09)	384 (15.12)	460 (18.11)	536 (21.10)	612 (24.09)	765 (30.12)	917 (36.10)
Resolution		infinite										
Recommended Cursor Current	μA	<1										
Temperature Range	$^{\circ}C$	-55~+125										
Dimensions A	mm (inch)	139 (5.47)	164 (6.46)	215 (8.46)	291 (11.46)	367 (14.44)	444 (17.48)	520 (20.47)	596 (23.46)	672 (26.46)	825 (32.48)	977 (38.46)

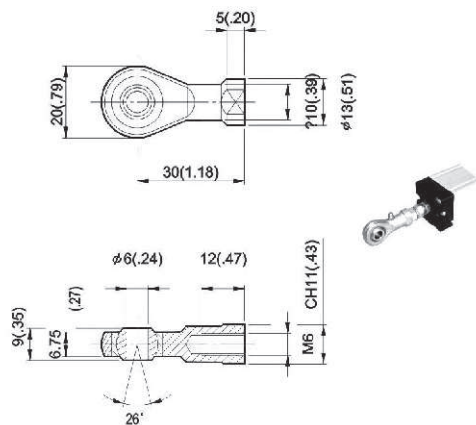
DIMENSIONS

mm(inch)

MECHANICAL KTC



ROD END BEARING (KTC-01)



LINK BALL (KTC-02)

