

T4L

Origin at non-motor side

Controller: 24V



Ordering method

T4L						ERCDC		
Model	Lead designation	Brake	Origin position change	Grease type	Stroke	Cable length ^{Note 1}	Controller	I/O connector specification
	12: 12mm 6: 6mm Z: 2mm	No entry: No brakes BK: Brakes provided	None: Standard Z: Non-motor side	None: Standard GC: Clean	50 to 400 (50mm pitch)	1L: 1m 3L: 3.5m 5L: 5m 10L: 10m 1K/3K/5K/10K (Flexible cable)		CN1: I/O flat cable 1m (Standard) CN2: Twisted-pair cable 2m (pulse train function)

Note 1. The robot cable is standard cable (1L/3L/5L/10L), but can be changed to flexible cable. See P.510 for details on robot cable.

Specifications

AC servo motor output (W)	30		
Repeatability ^{Note 1} (mm)	±0.02		
Deceleration mechanism	Ball screw φ8 (Class C10)		
Ball screw lead (mm)	12	6	2
Maximum speed (mm/sec)	720	360	120
Maximum payload (kg)	Horizontal	6	
	Vertical	1.2	7.2
Rated thrust (N)	32 64 153		
Stroke (mm)	50 to 400 (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+198	
	Vertical	Stroke+236	
Maximum dimensions of cross section of main unit (mm)	W45 × H53		
Cable length (m)	Standard: 3.5 / Option: 1.5, 10		
Linear guide type	2 rows of gothic arch grooves × 1 rail		
Position detector	Resolvers ^{Note 2}		
Resolution (Pulse/rotation)	16384		

Note 1. Positioning repeatability in one direction.

Note 2. Position detectors (resolvers) are common to incremental and absolute specifications. If the controller has a backup function then it will be absolute specifications.

Allowable overhang^{Note}

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)		
	2kg	4.5kg	6kg		2kg	4.5kg	6kg	Lead 12	A	C
Lead 12	433	223	340	Lead 12	149	50	31	1.2kg	125	125
Lead 6	87	33	26	Lead 6	54	1	0	2.4kg	56	57
Lead 2	180	75	62	Lead 2	376	148	195	7.2kg	0	0
	135	142	66		380	1180	440			
	142	142	66		1180	440				
	66	66	66		440					

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

Note. Service life is calculated for 300mm stroke models.

Static loading moment

(Unit: N·m)		
MY	MP	MR
15	19	18

Controller

Controller	Operation method
ERCDC	Pulse train control / Programming / I/O point trace / Remote command / Operation using RS-232C communication

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