

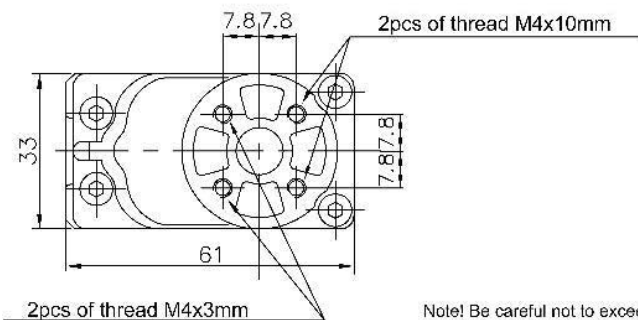
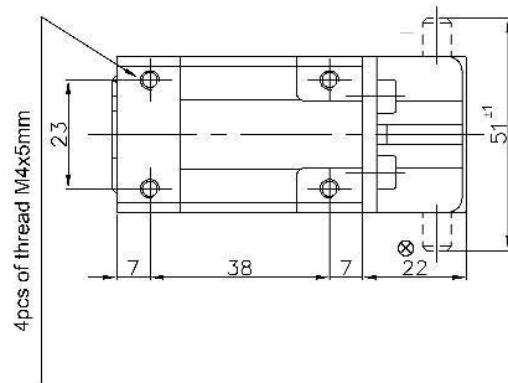
LINEAR ACTUATORS

LAT TYPE

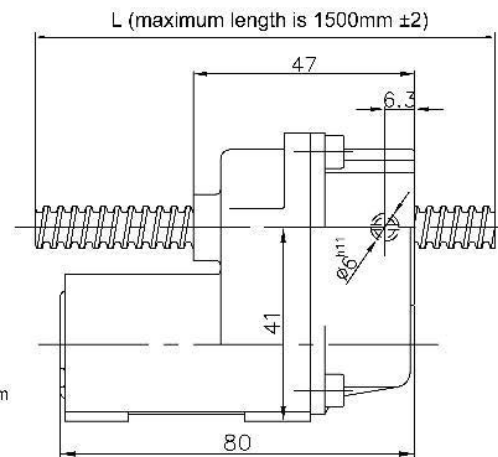
This type of linear actuator, is an extremely adaptable product, the main strengths turn out to be the small size (L33xA61xP80 mm) and thrust loads (up to 3000 N); the vol-ume of production also allows us to obtain a product with a high quality target at low cost.

Customized according to specific customer requirements, is suitable for use in many industrial applications, particularly where changes are required for low voltage (12/24VDC). Among the available options, thermal protector and en-coder with Hall effect for control of the position and direc-tion of advance, interfaced with the majority of electronic controls on the market.

⚠ The product is suggested to use periodically! Under continuous movement the product can be damaged!



Note! Be careful not to exceed the maximum fixed depth of the screw M4, because the inner components can be damaged!



LAT linear actuator datas

Code				Type	Voltage	No load speed*		Nominal load**		Max. load		No load current	Nominal current
with 8,7 x 3mm screw		with 7,9 x 10mm screw				8,7 x 3	7,9 x 10	8,7 x 3	7,9 x 10	8,7 x 3	7,9 x 10		
Without encoder	With encoder	Without encoder	With encoder		(V)	(mm/s)	(N)		(A)				
85.034. __	102.034. __	104.034. __	105.034. __	LAT 0,5A 1/12	12	13	39	20	7	30	10	0,2	0,4
85.035. __	102.035. __	104.035. __	105.035. __		24	26	78	40	13	60	20	0,2	0,7
85.036. __	102.036. __	104.036. __	105.036. __	LAT 0,5A 1/27	12	6	18	40	13	70	23	0,2	0,4
85.037. __	102.037. __	104.037. __	105.037. __		24	12	36	80	27	140	47	0,2	0,7
85.038. __	102.038. __	104.038. __	105.038. __	LAT 0,5A 1/48	12	3	9	80	27	150	50	0,2	0,4
85.039. __	102.039. __	104.039. __	105.039. __		24	6	18	160	53	300	100	0,2	0,7
85.040. __	102.040. __	104.040. __	105.040. __	LAT 0,5A 1/108	12	1,5	5	160	53	300	100	0,2	0,4
85.041. __	102.041. __	104.041. __	105.041. __		24	3	9	320	107	600	200	0,2	0,7
85.042. __	102.042. __	104.042. __	105.042. __	LAT 1A 1/12	12	18	54	40	13	80	27	0,3	0,8
85.043. __	102.043. __	104.043. __	105.043. __		24	36	108	80	27	180	60	0,3	1,3
85.044. __	102.044. __	104.044. __	105.044. __	LAT 1A 1/27	12	8	24	100	33	130	43	0,3	0,8
85.045. __	102.045. __	104.045. __	105.045. __		24	16	48	200	67	260	87	0,3	1,3
85.046. __	102.046. __	104.046. __	105.046. __	LAT 1A 1/48	12	4,5	14	220	73	400	133	0,3	0,8
85.047. __	102.047. __	104.047. __	105.047. __		24	9	27	440	147	800	267	0,3	1,3
85.048. __	102.048. __	104.048. __	105.048. __	LAT 1A 1/108	12	2	6	400	133	650	217	0,3	0,8
85.049. __	102.049. __	104.049. __	105.049. __		24	4	12	800	267	1300	433	0,3	1,3
85.050. __	102.050. __	104.050. __	105.050. __	LAT 2A 1/12	12	28	84	130	43	200	67	0,4	1,4
85.051. __	102.051. __	104.051. __	105.051. __		24	56	168	260	87	400	133	0,4	2,2
85.052. __	102.052. __	104.052. __	105.052. __	LAT 2A 1/27	12	13	39	200	67	400	133	0,4	1,4
85.053. __	102.053. __	104.053. __	105.053. __		24	26	78	400	133	800	267	0,4	2,2
85.054. __	102.054. __	104.054. __	105.054. __	LAT 2A 1/48	12	7	21	350	117	700	233	0,4	1,4
85.055. __	102.055. __	104.055. __	105.055. __		24	14	42	700	233	1400	467	0,4	2,2
85.056. __	102.056. __	104.056. __	105.056. __	LAT 2A 1/108	12	3	9	700	233	1300	433	0,4	1,4
85.057. __	102.057. __	104.057. __	105.057. __		24	6	18	1400	467	2500	833	0,4	2,2
85.058. __	102.058. __	104.058. __	105.058. __	LAT 4A 1/12	12	37	111	240	80	400	133	0,5	2,5
85.059. __	102.059. __	104.059. __	105.059. __	LAT 4A 1/27	12	16	48	450	150	800	267	0,5	2,5
85.060. __	102.060. __	104.060. __	105.060. __	LAT 4A 1/48	12	10	30	900	300	1500	500	0,5	2,5
85.061. __	102.061. __	104.061. __	105.061. __	LAT 4A 1/108	12	5	15	1500	500	2600	867	0,5	2,5

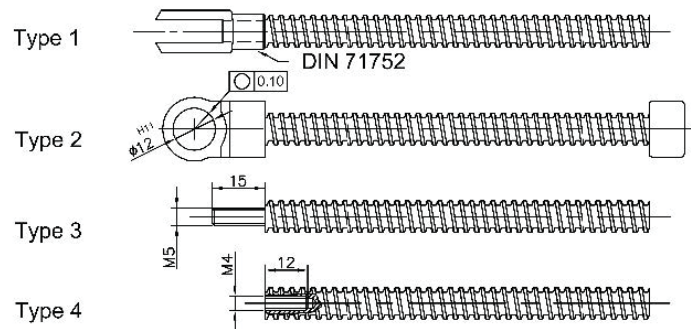
⚠ End screw designs see on the next page.
The description of order code see on the next page

* Half of the indicated value should be considered when it is loaded!

** These datas are valid for a maximum screw length of 500 mm.

In any case, is recommended to use guide in order to reduce the screw deflection.

The actuator is self-locking with a 3mm lead trapezoidal screw, therefore it can be suitable for squeezing applications, too. When the actuator reach the squeezing position, the motor should be switched off, otherwise it may burn out.



Trapezoidal screw end designs for LAT linear actuator

Code	Sign of the type	Diameter of the screw	Pitch of the screw	Max. screw length	Material
___.001	1	8,7	3	1500	Stainless steel AISI 430F
___.003		7,9	10		
___.004	2	8,7	3		
___.006		7,9	10		
___.007	3	8,7	3		
___.009		7,9	10		
___.010	4	8,7	3		
___.012		7,9	10		

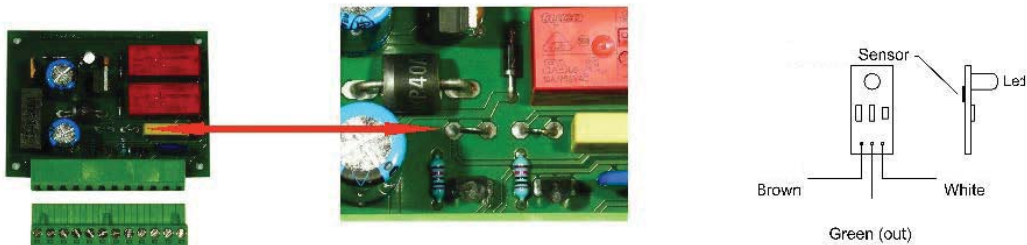
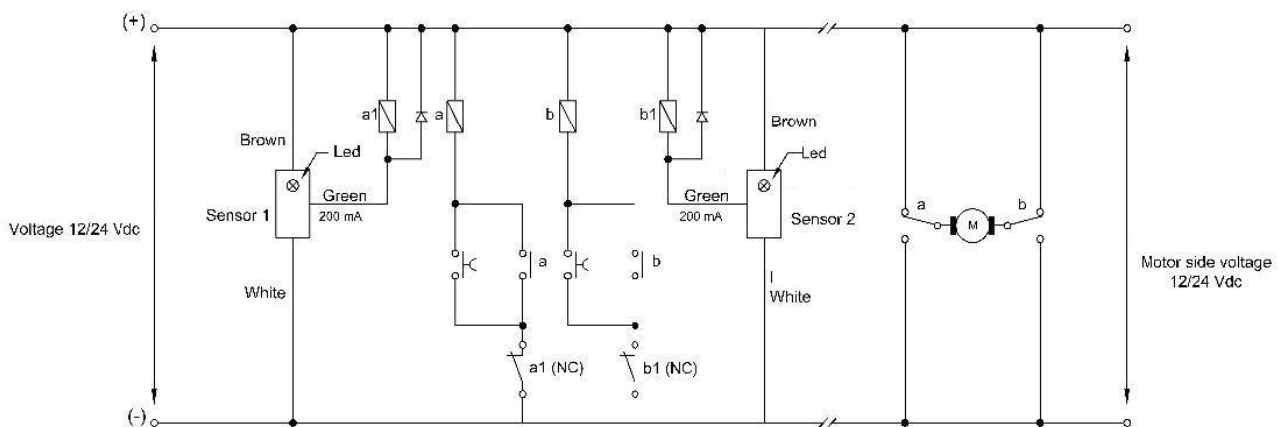
ORDER CODE STRUCTURE

Sign of the linear actuator	85.	034.	001	-150
Sign of the linear actuator type				
End design type sign				
Screw length				

ACCESORIES FOR ACTUATORS

Accesories datas

Code	Type	Note
85.099.003	PTC thermic protection	-
85.099.006	Electronic board	Impulse controll
85.099.007	Magnetic switch	Only for LATT type

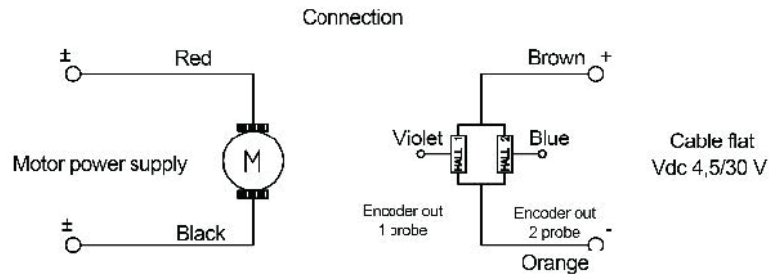


Electronic board design

a1-b1: relay with 1 changeover contact -commutation current 2A min. (coil voltage 12/24 Vdc)

a-b: relay with 2 changeover contacts -commutation current 7A min. (coil voltage 12/24 Vdc)

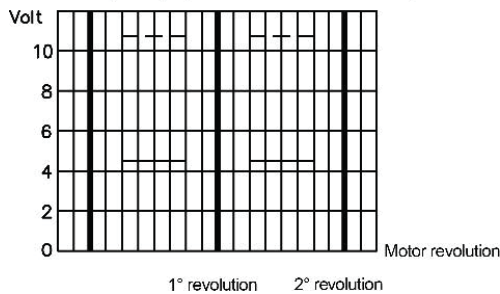
HALL EFFECT ENCODER



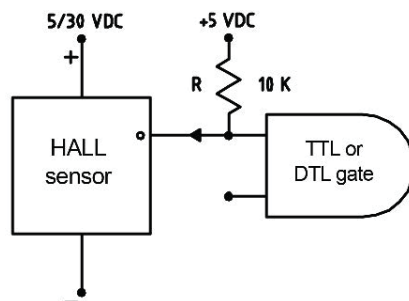
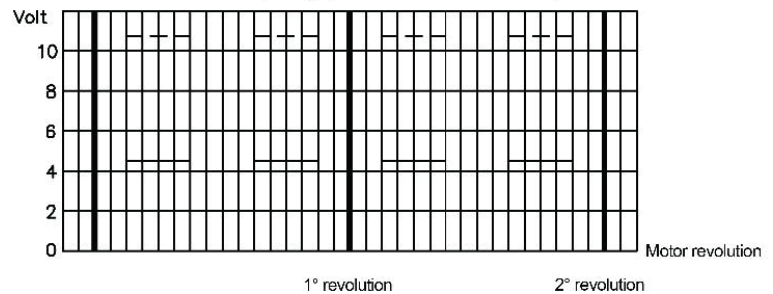
Magnetic encoder with hall's probe put inside the gearmotor body. Hall's probe supply voltage: Vdc from 4,5-30V max. With two probes advance sense survey shaft rotation signal with state. Encoder release NPN or PNP (upon request) signal.

Available versions

Encoder 1 pole (1 pulse / motor revolution)



Encoder 4 pole (2 pulse / motor revolution)



⚠ For see signal encoder is necessary put resistance 10K value in parallel to encoder out/s and positive (brown)
In models from 2016 spring the resistance is included in the encoder.