

## Linear-Elektrozylinder DSZY30

Electric linear actuators are used in different applications. The electric actuator DSZY30 is a special version, where the motor is not laterally but axially mounted to the piston rod.

Equipped with an acme screw (ACME screw), it is a small, compact and lightweight DC linear drive.

Due to an integrated diode circuit, a rapid direction reversal is ensured by simple voltage reversal of the DC motor.

It is standard, that all types have two integrated non-adjustable limit switches, which are directly connected with the DC motor.

Overloading of the actuator can be avoided by separate monitoring and limiting of the current with the motor control.

Standard

CE



**DSZY30**

### Type code

DSZY30	-	12	-	A4	-	200	-	1	-	IP54
Type		Voltage 12V 24V		Piston rod A4 A6 A8 AC		Stroke 50mm 100mm 150mm 200mm 250mm 300mm		Postin rod – front connector 1 3 9 A B		Protection type IP54

### Piston rod - Front connectors

1	3	9	A	B
<b>C1x</b> Plastic	<b>C3x</b> Round hole	<b>C9x</b> Universal joint	<b>CAx</b> Aluminium + bushing	<b>CBx</b> Round hole + bushing

### Speed and Current

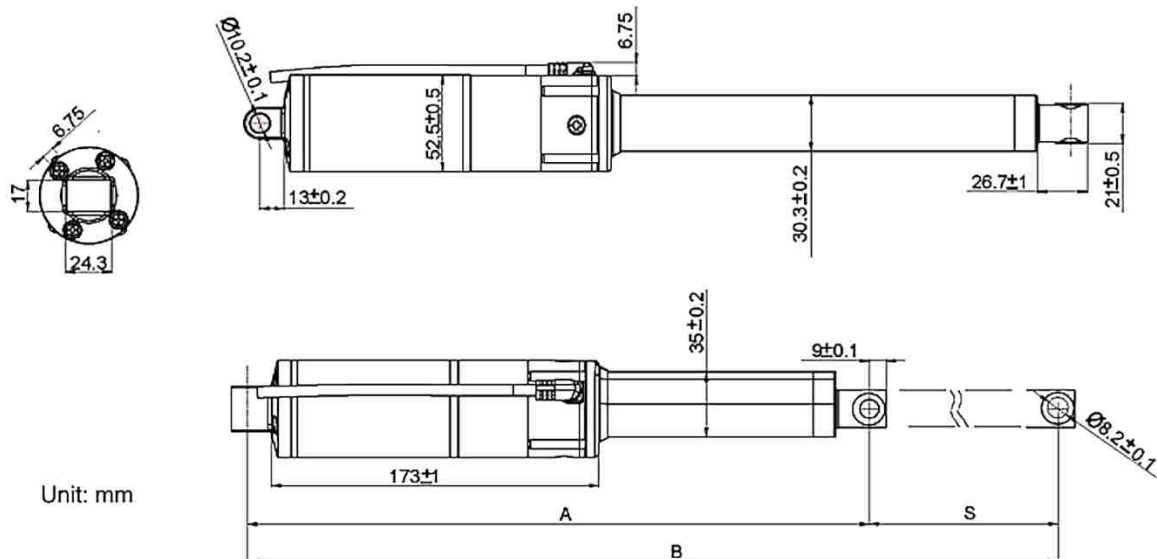
Spindle type	load [N]	speed [mm/s]		current [A]			
		No load	Full load	No load		Full load	
	Pull and Push			12 V	24 V	12 V	24 V
A4	1.000	8,0	6,0	4,2	3,1	5,4	3,8
A6	1.000	9,0	6,5	4,3	3,1	5,3	3,7
A8	800	13,0	7,5	4,2	3,1	5,2	3,6
AC	500	18,0	12,0	4,3	3,1	4,9	3,4

## Additional technical data

- push/pull force up to 1000N
- Static load up to 4.000N (by spindle type A4 and A6)
- Noise Level  $\leq$  65dB
- Aluminium outer tube and stroke rod
- Voltage 12V or 24V
- Operating temperature -26°C-65°C
- Protection type IP5
- Duty cycle 10% or 2min continuous operation in 18min

## Dimension

Linear-actuator DSZY30 -	Length	Mass in mm					
	Stroke (S)	50	100	150	200	250	300
Piston rod – No.: 1 o. 3 o. B	A retracted length	306	356	406	456	506	556
	B extended length	356	456	556	656	756	856
Piston rod – No.: 9	A retracted length	332	382	432	482	532	582
	B extended length	382	482	582	682	782	882
Piston rod – No.: A	A retracted length	315	365	415	465	515	565
	B extended length	365	465	565	665	765	865



## Mounting instruction

Please make sure, that load is not bigger than shown in the table „Speed – current“. To protect the actuator against overloading, it must be turned off, when maximum current is reached. This can be read from the table depending on the particular type of spindle. Please use the right voltage supply as it is shown on the actuator.

For extending the piston rod connect the red cable with plus and the black cable with minus. Movement is stopped automatically, when the limit switches are reached. For moving back, reverse the polarity (change plus and minus). Limit switches are not adjustable by the customer.

Load should always be centered in moving direction. Transverse forces should be avoided, because of shortening the lifetime.

Big transverse forces can destroy the actuator.

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