Linear actuator DSZY2-STD (Standard)

DSZY2 electric linear actuators are required in a wide variety of applications. Therefore, it is available in six models:

- 1. DSZY2-STD (Standard)
- (for all applications without position feedback) 2. DSZY2-POT
- (with potentiometer for absolute position feedback) 3. DSZY2-HS2
- (with 2-channel Hall sensor for incremental position feedback) 4. DSZY2-LT
- (with integrated limit switches)
- 5. DSZY2-LT-POT
- 6. DSZY2-LT-HS2

Equipped with a trapezoidal screw spindle (ACME screw), it is a durable and robust DC linear drive, thus achieving high self-locking. In addition, mechanical overload protection has been integrated.



DRIVE SYSTEM EUROPE

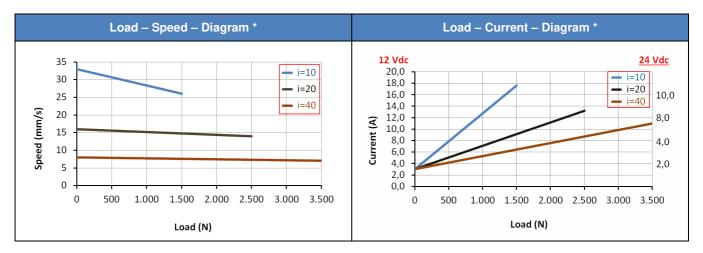
by MSW®

Type code (all options can be combined)

DSZY2 -	12	- 10	- 203	- STD	IP65
Туре	Input voltage 12 Vdc 24 Vdc	Gear reduction i 10 20 40	Stroke 102 mm 153 mm 203 mm 254 mm 305 mm 457 mm	Model STD: Standard (without limit switches, without position feedback)	IP Code
			457 mm 610 mm		

Performance data: Load – Speed – Current

Gear	Dynamic	Static		speed * n/s)	Typical current * (A)				
reduction i	load (N)	load (N)	minimum	maximum	minimu	ım laod	maxim	um load	
	()	(/	laod	load	12 Vdc	24 Vdc	12 Vdc	24 Vdc	
10	1,500	approx. 3,000	33.5	26.7	2.6	1.6	17.6	8.8	
20	2,500	approx. 5,000	16.8	14.3	2.6	1.6	13.2	6.6	
40	3,500	7,500	8.4	7.5	2.6	1.6	11.0	5.5	



(*) Average values

Additional technical specifications

- Thrust and tensile load up to 3,500 N
 Static load up to 7,500 N (at i=40)

- Working temperature -25 C° to +65 C°
 Duty cycle 25 % (e.g. 2 min continuous operation - 6 min pause)
- Zinc alloy casing
- Steel outer tube
- IP Code IP65 for all models (in idle state) • CE - EMV 2014/30/EU
- (EN 61000-6-3:2007+A1:2011)
- EN -61000-6-1:2007

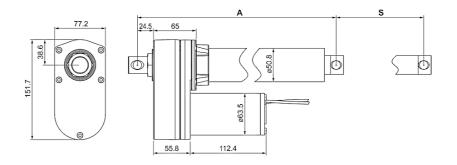
DRIVE SYSTEM EUROPE

by MSW *

- IEC 61000-4-2:2008
- IEC 61000-4-
- 3:2006+A1:2007+A2:2100
- IEC 61000-4-8:2009

Dimensions

Dimensions (length) in mm (Tolerance ± 5 mm)							
Stroke (S) ± 3 mm 102 153 203 254 305 457 61							610
(A) retracted	262	313	364	414	465	668	821
(A+S) extended	364	466	567	668	770	1,125	1,431



Weight

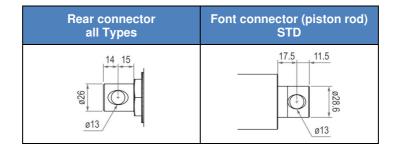
Stroke in mm	Туре	102	153	203	254	305	457	610
Weight in kg (incl. packing) approx.	STD	4.3						

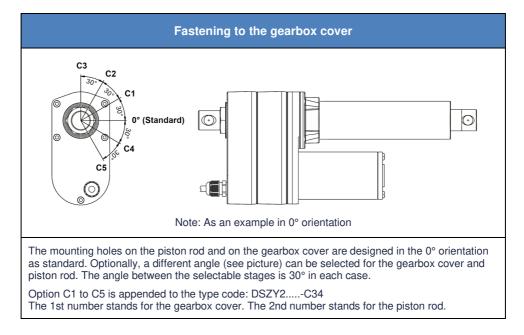
Pin assignment

Gear reduction i	05 – 10 – 20	30 – 40
Red	Red wire to Vdc "+" and black wire to	Red wire to Vdc "-" and black wire to
Black	Vdc "-": Piston rod extends	Vdc "+": Piston rod extends

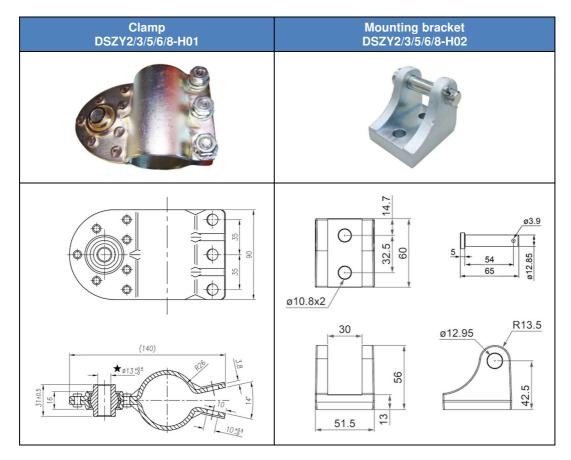


Front and rear connector





Mounting material



Installation instructions

Please note the correct supply voltage as indicated on the electric linear actuator. It must be ensured that the load is not greater than shown in the diagram. To protect against overload, the voltage must be switched off when the maximum current is reached. This can be read in the diagram depending on the selected reduction ratio.

DRIVE SYSTEM EUROPE

by MSW®

The piston rod is secured against rotation.

In an emergency, the linear actuator is protected by a mechanical overload clutch. The response of this clutch is expressed in a loud rattling tone.

CAUTION: The overload coupling is not designed for continuous use. Instead, it is intended for emergencies, for example, if current monitoring fails. The use of external limit switches is therefore strongly recommended in the standard model.

CAUTION: Please observe the correct wiring for the retraction or extension (see pin assignment in the data sheet).

The load should always be centered in the direction of movement. Transverse forces must be avoided. They always shorten the service life and can impede the function or even destroy the device in extreme cases.



Drive System Europe by MSW[®]

A trade mark of MSW Motion Control GmbH

MSW Motion Control GmbH

Vertriebsgesellschaft Schloßstr. 32/34, 33824 Werther (Westf.) Deutschland anfrage@msw-motion.de www.msw-motion.de Phone: +49 (0)5203 919200

Errors and technical changes excepted.

Version: 06 December 2024

© MSW Motion Control GmbH Vertriebsgesellschaft