Linear actuator DSZY35 – completely in stainless steel

Stainless steel linear electric cylinders are required in a wide variety of applications. The electric cylinder DSZY35 is completely made of stainless steel.
It is available in the version:

DSZY35-HS2
(with Hall sensor for incremental position feedback)

Equipped with a trapezoidal screw (ACME screw) it is small, compact and lightweight DC linear actuator.
With the help of an integrated diode circuit, a fast reversal of direction is achieved by simple voltage reversal of the DC motor.
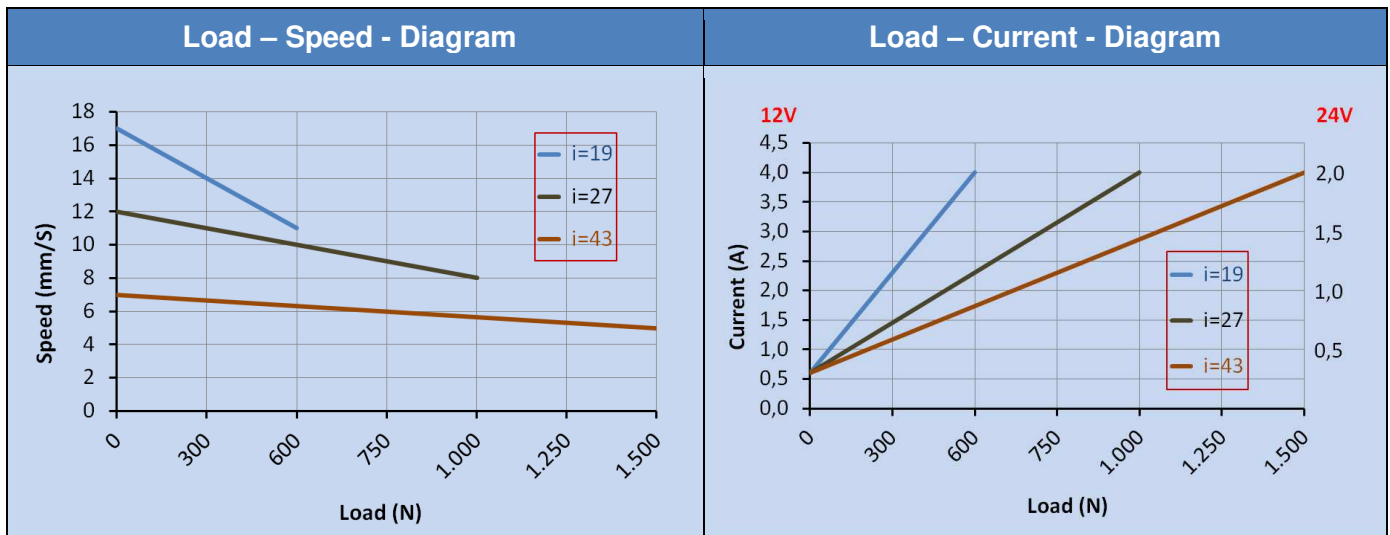The DSZY35 does not contain integrated limit switches.
An overload of the drive can be prevented by a separate monitoring and limiting of the current.

Type code (all sizes can be combined)

DSZY35	-	12	-	10	-	200	-	HS2	-	IP69K
Type		Voltage 12V 24V		Gear ratio 19 27 43		Stroke 50mm 100mm 150mm 200mm 250mm 300mm 350mm 400mm		signal feedback HS2 (Hall-Sensor)		Protection type Standard: IP69K

Speed- and current-diagrams

Load – Speed - Diagram


Load – Current - Diagram

Additional technical data

- push/pull force: up to 1.500N
- static force: 1.800N (bei i=43)
- Operating temperature: -20C°- 70C°
- Duty cycle: 10% (2min continuous operation in 18min)
- Housing is made of SUS304 stainless steel
- Outer tube and push rod made of stainless steel SUS304
- Voltage: 12V und 24V
- Protection for all types is IP69K
- Certificates: CE, EMC 2014/30/EU

Dimensions

Linear actuator	Length		Size in mm							
	Stroke ± 3mm		50	100	150	200	250	300	350	400
DSZY35 - Version HS2	A retracted		237	287	337	387	437	487	537	587
	B extended		287	387	487	587	687	787	887	987
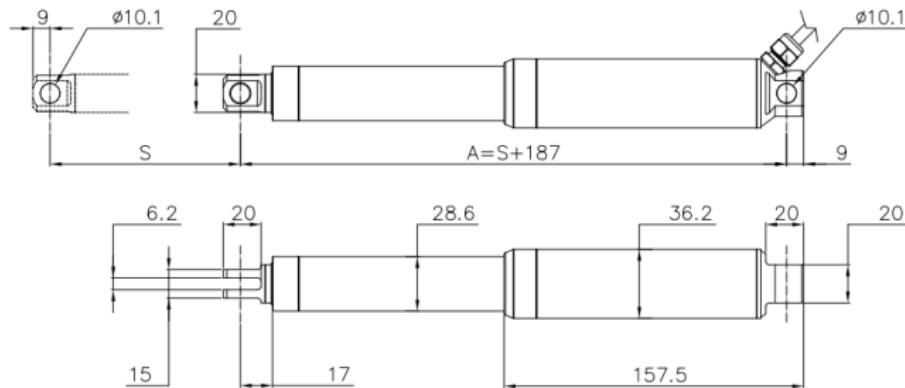
Terminal assignment

red	black	Move
M+	M-	extends
M-	M+	retracts

withe	COM
blue	Data1
green	Data2
yellow	Vcc

Gear reduction	pulse / mm
I=19	9,56
I=27	13,5
I=43	21,45

Installation notes

Attention: The DSZY35 has no integrated limit switches. In general, we recommend, that you also set separate limit switches. This prevents that the cylinder does not drive into its mechanical end positions and the motor burns out..

Please make sure, that load is not bigger than shown in the diagram speed/load. If overload is possible in the application, please use a separate current control to switch off at too high current (= too high load). Nominal current, depending on ratio, is shown in the diagram current / load.

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. For moving back, reverse the polarity (change plus and minus). Endswitches are not adjustable by themselves.

Load should be centered in moving direction and transverse forces should be avoid because of shortening the lifetime. Big transverse forces can destroy the actuator! Be carefull.

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