DRIVE SYSTEM EUROPE by MSW*

Linear actuator DSZY35 (of stainless stell)

Stainless steel electric linear actuators are required in a wide variety of applications. The electric linear actuator DSZY35 is made of stainless steel. It is available in the model:

DSZY35-HS2

(with 2-channel 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 have integrated limit switches.

Overloading of the drive can be prevented by separate monitoring and limiting of the current.

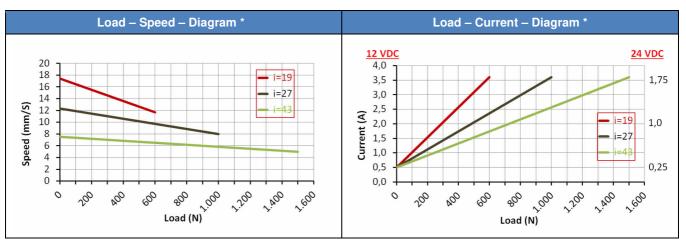


Type code (all options can be combined)

							Optional			nal
DSZY35	- 12		19	200	HS2	IP69K	-	С	1	1
Туре	Input voltage	ı	Gear reduction i	Stroke 50 mm	Version 2-channel	IP Code			Front connector	Rear connector
	12 Vdc		19	100 mm	Hall sensor				(piston rod)	(gear cover)
	24 Vdc		27 43	150 mm 200 mm 250 mm 300 mm 350 mm 400 mm					1 = massive 2 = Standard	1 = Standard 2 = clevis

Performance data: Load - Speed - Current

Gear	Dynamic	Static load		speed * n/s)	Typical current * (A)			
reduction i	Load (N)	(N)	minimum	maximum	minimu	ım load	maximum load	
			load	load	12 Vdc	24 Vdc	12 Vdc	24 Vdc
19	600	1,800	17.4	11.7	0.5	0.25	3.6	1.8
27	1,000	1,800	12.3	8.0	0.5	0.25	3.6	1.8
43	1,500	1,800	7.5	5.0	0.5	0.25	3.6	1.8



(*) Average values

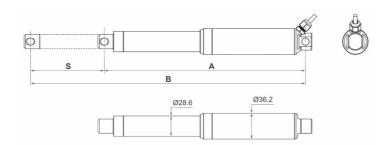


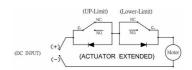
Additional technical specifications

- push/pull load: up to 1,500 N
- static load: 1,800 N (at i=43)
- Operating temperature: -20 C°- 70 C°
 Duty cycle 10 % (e.g. 2 min continuous operation - 18 min pause)
- Housing is made of SUS304 stainless steel
- Outer tube and push rod made of stainless
- Voltage: 12 Vdc und 24 Vdc
- IP Code IP69K for all models (in idle state)
- Certificates: CE, EMC 2014/30/EU

Dimensions

Dimensions (length) in mm									
Front- / Rear-connector	Stroke (S) ± 3mm	50	100	150	200	250	300	350	400
Standard	(A) retracted	237	287	337	387	437	487	537	587
Statidard	(B) extended	287	387	487	587	687	787	887	987
C11	(A) retracted	233	283	333	383	433	483	533	583
C11	(B) extended	283	383	483	583	683	783	883	983
C12	(A) retracted	248	298	348	398	448	498	548	598
012	(B) extended	298	398	498	598	698	798	898	998
C22	(A) retracted	252	302	352	402	452	502	552	602
C22	(B) extended	302	402	502	602	702	802	902	1002





Red wire on "+" and black wire on "-": Actuator extends.

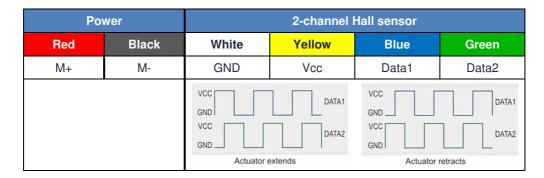
Black wire on "+" and red wire on "-": Actuator retracts.

Cable length: 1,000 mm

Weight

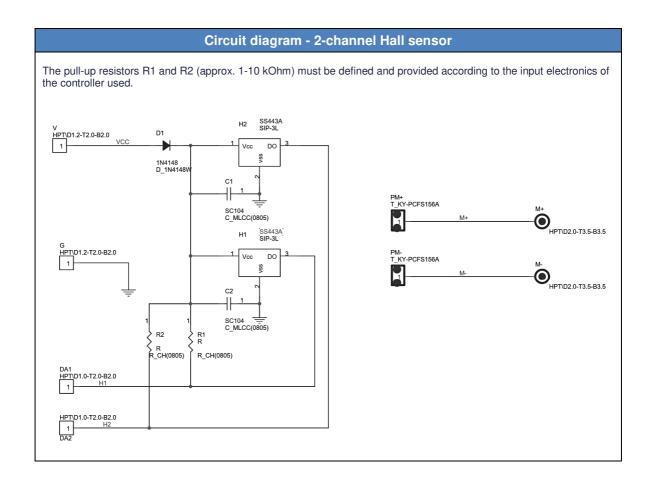
Stoke in mm	50	100	150	200	250	300	350	400
Weight in kg	1.000	1.130	1.200	1.410		1.700		1.860

2-channel Hall sensor



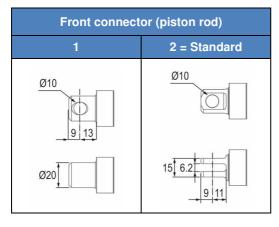
Gear reduction i	19	27	43
Resolution (pulse/mm)	9.56	13.50	21.45

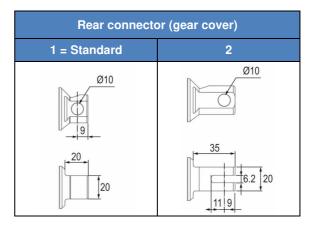
Voltage input range: Vcc: 3.5 Vdc - 30 Vdc - Output voltage of signal: Data1 / Data2 = Vcc





Front and rear connector



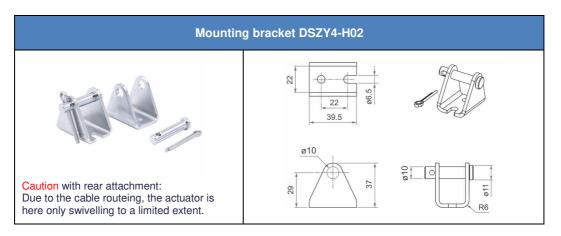


CAUTION:

C21 is standard and will not be specified in the type code.

If at least one connector is changed, option C must be attached to the type code (e.g., DSZY35...-IP69K-C11)

Mounting material



Installation instructions

CAUTION: The DSZY35 does not have integrated limit switches. It must be ensured that it cannot move into its mechanical end positions. To prevent this, we recommend the use of external limit switches.

2-channel Hall sensors for position feedback are integrated as standard in the DSZY35.

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 rated current is reached. This can be read in the load-current diagram depending on the selected reduction ratio. Please note the correct supply voltage, which is indicated on the electric linear actuator.

The piston rod extends when the red wire is connected to positive and the black wire to negative. For the retraction of the piston rod, positive must be reversed with negative. The movement stops as soon as the voltage is interrupted.

If the piston rod is not fixed, it will rotate when retracting or extending.

The load must always be centered in the direction of movement. Transverse forces must be avoided. They shorten the service life and can impede the function or lead to irreparable damage in extreme cases.



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Errors and technical changes excepted.

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