Linear actuator Picolo





Our innovative design models with flexible mounting options



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Picolo for the latest demands of architects and façade designers elero's space-saving linear actuator with innovative design for the adjust-

ment of photovoltaic louvres and large louvres made of glass, aluminium or stainless steel for commercial architecture.

Picolo's aesthetic design

Through the slim and cylindrical design, technical and functional aspects as well as optical and aesthetic aspects have been taken into account. The flexible mounting position offers numerous application possibilities, no matter if the piston rod is installed horizontally or facing upwards.

Picolo has a lot of advantages

- Thanks to weather-resistant construction, the mounting position is flexible
- · Easy control
- Low-noise operation
- UV-resistant cables

Picolo is weather-resistant

With waterproof housing and weatherresistant fixing elements, Picolo is an optimum solution for outdoor applications.

The technology

elero's Picolo linear actuator is an electromechanical push-rod drive in which a rotational movement is transformed into a linear movement by gear units and a threaded spindle.

- Protection against solar heat
- Well-lit rooms through controlled daylighting
- Interior glare protection
- Optimimum lighting conditions for PC work environments

The facts

	Picolo XL / XL-P			Picolo 0	
Operating voltage	230V 1AC, 50Hz 24V DC		24V DC	12V DC / 24V DC	
Stroke speed (mm/s)	ca. 20	ca. 6	ca. 5	ca. 2 – 16	
Load (N)	400	400 1,200		100 – 1,800	
Rating	KB 5 min S3 15%		S3 15%	KB 5 min	
Housing diameter (mm)	48			35	
Stroke lengths (mm)	100, 200, 300, 400, 500, 600		00, 500, 600	75 – 400 (lug-lug mounting)	
				75 – 800 (pivot mounting)	
Temperature range (°C)	-20 to +80		+80	-20 to +80 (Version B: 0 to +80)	
Cable length (m)	2				
Housing + fixing elements	stainless steel 1.4301		eel 1.4301	stainless steel 1.4571 anodised aluminium	
Mounting positions	flexible				
Protection type (IP)	65		35	67	

Linear actuator Picolo XL





Description • Applications • Options

Characteristics

- Waterproof housing of stainless steel
- Integrated, easily adjustable limit switches
- Torsion lock piston
- For the 230V AC model: Integrated capacitor and an asynchronous motor, which is particularly robust and its speed is constant even if the load fluctuates.

Applications

- · Facade architecture
- Adjustment of louvres and photovoltaic panels
- Window adjustment
- Ventilation systems

Options

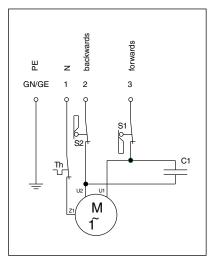
- Fixing elements can be delivered 90° or 45° rotated
- Clevis end on piston and/or housing end
- Bearing bracket for clevis end
- Pivot attachment
- Connecting cable with plug connectors
- · RAL colour coating
- Encoder (available for the 230V version), from 5 to 24V DC, 6 pulses/mm

Accessories

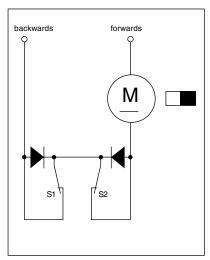
- Adjustable pivot
- · Fail-safe monitor
- Bearing brackets

Attachment options

- Articulated lug (standard)
- · Clevis end
- Articulated lug (90° rotated)
- Clevis end (90° rotated)



WS0800/230V 1AC



GS0300/24V DC

S1 = Limit switch
piston rod out
S2 = Limit switch

piston rod in

C1 = Capacitor (internal)Th = Thermal protection

Linear actuator Picolo XL-P



Description • Applications • Options

Characteristics

- Integrated isolation relays enabling parallel connection of several actuators
- Weather-resistant 230V linear actuator made of stainless steel
- Additional isolation relays are not required
- Reduced installation expenditure and higher security against incorrect use
- Control of several linear actuators in parallel (without synchronisation)

Applications

- · Façade architecture
- Adjustment of louvres and photovoltaic panels
- · Window adjustment
- · Ventilation systems

Options

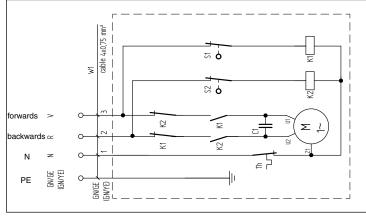
- Fixing elements can be delivered 90° or 45° rotated
- Clevis end on piston and/or housing end
- · Bearing bracket for clevis end
- Pivot attachment
- Connecting cable with plug connectors
- RAL colour coating

Accessories

- Adjustable pivot
- Bearing brackets

Attachment options

- Articulated lug (standard)
- Clevis end
- Articulated lug (90° rotated)
- Clevis end (90° rotated)



WS9820 (for parallel connection)

S1 = Limit switch piston rod out

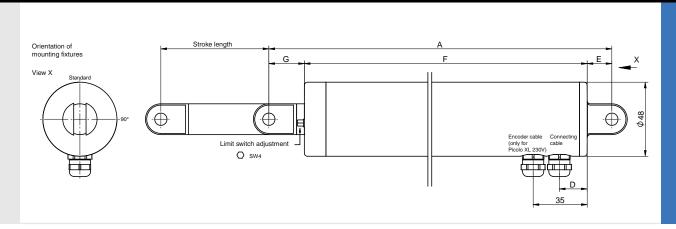
S2 = Limit switch piston rod in

C1 = Capacitor (internal)

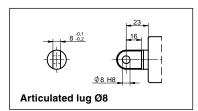
Th = Thermal protection

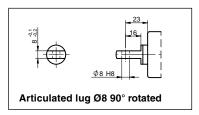
Technical data and dimensions Picolo XL / XL-P

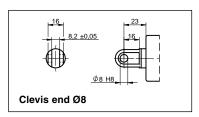


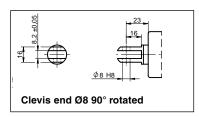


Mounting fixtures – piston side Dim. G









Dimensions

Stroke	Dimension F (mm)			
length	230V 1A	24V DC		
(mm)	Picolo XL	Picolo XL-P	Picolo XL	
100	491	526	421	
200	591	626	521	
300	691	726	621	
400	891	926	821	
500	991	1,026	921	
600	1,091	1,126	1,021	

Dim. A = G + F + E (mm)

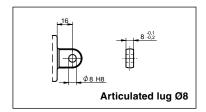
Position of connecting cable Dim. D

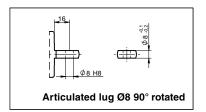
Dimension D (mm)			
230V 1AC, 50 Hz		24V DC	
Picolo XL	Picolo XL-P	Picolo XL	
18	30	30	

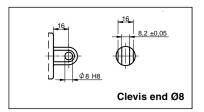


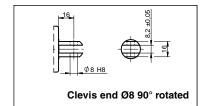


Mounting fixtures – housing end Dim. E









Linear actuator Picolo 0



Description • Applications • Options

Characteristics

- · Direct current drive
- Waterproof housing and fixing elements made of anodised aluminium or stainless steel 1.4571
- Integrated limit switches
- Central cable outlet
- Optional synchronisation control for synchronous operation of two linear actuators

Applications

- Façade architecture
- Adjustment of louvres and photovoltaic panels
- · Window adjustment
- · Maritime applications
- · Swimming pools
- Greenhouses
- · Louvre windows
- "Cabrio roofs" (flexible roofing systems for patios and winter gardens, with large-format slats made of glass, aluminum or stainless steel)
- · Ventilation systems

Options

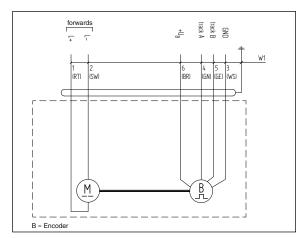
- Encoder
- · Synchronisation control
- Connecting cable with plug connectors
- RAL colour coating

Accessories

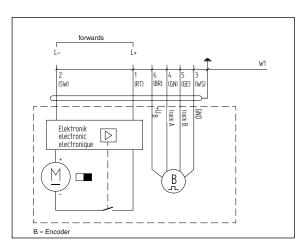
- Adjustable pivot
- Synchronous control unit
- Bearing brackets

Attachment options

- Articulated lug (standard)
- Clevis end
- Adjustable articulated lug (on piston end)
- Joint rod head (on piston end)

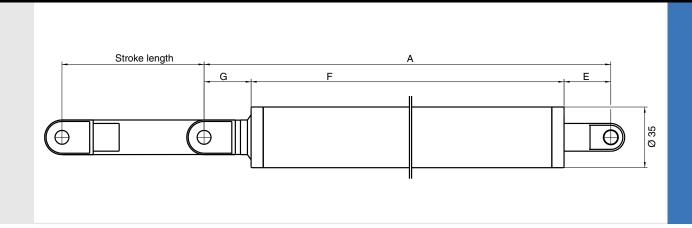


GS9603 (Encoder without limit switch and synchronisation control)

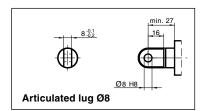


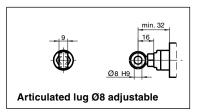
GS9312 (Encoder with limit switch)

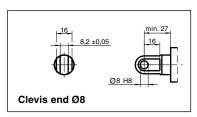
Technical data and dimensions Picolo 0

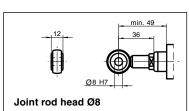


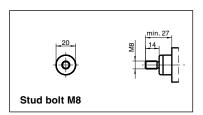
Mounting fixtures – piston side Dim. G











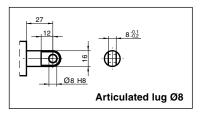
Dimensions

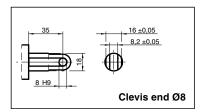
Stroke length (mm)	Dimension F (mm)
75	349
100	374
150	424
200	474
250	524
300	574
400	674
600*	909
800*	1,109

* Max. load is 900N when stroke 600 mm or 800 mm is selected

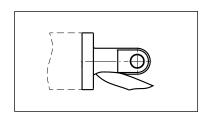
Dim. A = G + F + E (mm)

Mounting fixtures – housing end Dim. E





Functional diagram Central cable outlet



Load (N) and stroke speed (mm/s)

Version	Load (N)	Stroke speed (mm/s)	No. of pulses*
Α	100	16	13.5
В	400	9	13.5
С	900	4.5	24
D	1,800	2	60.75

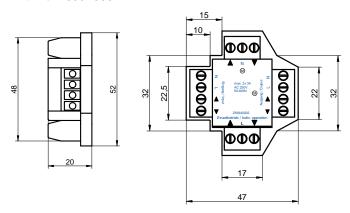
^{*} For option: Encoder

Electrical accessories Picolo 0 / Picolo XL

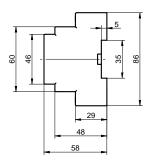


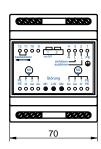


Central control unit for 1 or 2 AC drivers Art. No. 239940002

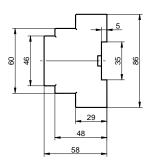


Picolo XL fail-safe monitor Art. No. 752232302





Picolo 0 synchronous control system Art. No. see table





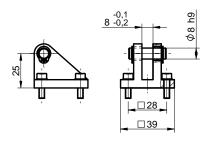
Picolo 0 synchronous control system			
Version	12V DC	24V DC	
Α	756176301	755084001	
В	756176401	755083901	
CD	756176501	754335301	

Mounting accessories Picolo 0 / Picolo XL

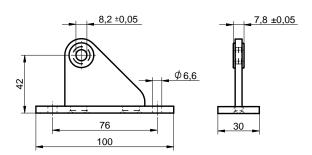




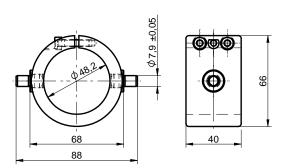
Bearing bracket 25 mm - Art. No. 724670101 for articulated lug



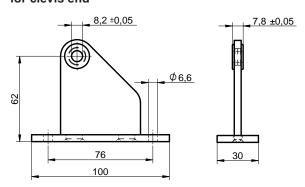
Bearing bracket 42 mm - Art. No. 750364001 for clevis end



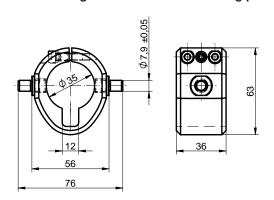
Picolo XL pivot mounting fixture – Art. No. 750440901 tension ring fixed on actuator housing per bolt



Bearing bracket 62 mm - Art. No. 750323401 for clevis end



Picolo 0 pivot mounting fixture – Art. No. 754068901 tension ring fixed on actuator housing per bolt



elero linear actuators



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Please find further technical information on our website in the category Service/Instructions.