

Systematic safety in the process industry

The ASDLP measuring unit is optimised for the process industry and can be used for closed and open-loop control of gate slides, flat slide valves and weirs particularly in the area of water, sewage and silage technology and in the paper and bulk goods industry. The movement of the linear actuator DLP is, from a purely mechanical point

of view, sensed steplessly.

The swivel angle is optimised with respect to the usability of various positioning controllers. The system offers the option of mounting the positioning controller normally used for quarter-turn actuators in the area of process automation directly onto the cylinder.

- Port pattern to Namur (VDI/ VDE 3845) for direct assembly of conventional positioning controllers
- Purely mechanical conversion of the linear movement into a rotational movement to actuate the positioning controllers
- Unlimited use in explosive atmospheres

- Specially suited for use outdoors
- Sturdy and reliable, even in aggressive environments
- Highly corrosion resistant
- Clean, smooth surface thanks to its elegant design
- Swivel angle 36 ... 108°

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Interface to the linear actuator

The measuring unit is attached by clamping it into existing slots in the linear actuator DLP. Existing DLP linear actuators can thus be retrofitted with the measuring unit without requiring additional attachments.

Interface to the positioning controller

Port pattern to Namur VDI/VDE 3845





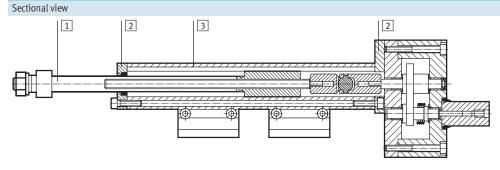
General technical data			
Assembly position		Any	
Max. speed	[m/s]	0.05	

Rotation angle [°]				
Gearing for stroke	[mm]	50 100	100 200	200 600
Theoretical angle of rotation	[°]	54 108	50.5 101	36 108

Operating and environmental conditions			
Ambient temperature ¹⁾ [°C]	-20 +80		
Corrosion resistance class CRC ²⁾	3		
CE marking (see declaration	In accordance with EU EMC directive		
of conformity) → www.festo.com			
ATEX specification	II 2 GD c T6 T80°C		
ATEX ambient temperature	-20°C ≤ Ta ≤ +80°C		

- 1) Note operating range of positioning controllers
- Corrosion resistance class 3 according to Festo standard 940 070 Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for

Weights [g]				
Size	80	100	125	160
Basic weight with 0 mm stroke	1,496	1,506	1,427	1,427
Additional weight per 10 mm stroke	23.9	23.9	23.9	23.9



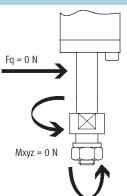
Mea	Measuring unit			
1 Piston rod Smooth-rolled, high-alloy steel		Smooth-rolled, high-alloy steel		
2	Bearing cap	Extruded aluminium		
3	Cylinder barrel	Smooth anodised aluminium		
-	External screws	Stainless steel		
-	Rod bearing	Smooth composite material		
-	Seals	Polyurethane, nitrile rubber		

Materials

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Measuring units ASDLP Technical data

Permissible loads on the measuring unit and on its telescopic measuring rod



Permissible drive torque or resetting torque, as appropriate, of the positioning controller

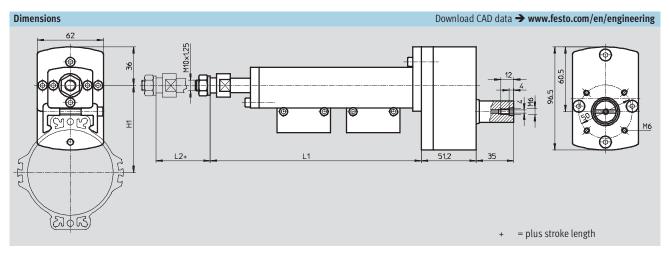
Mdriv. max = 2.5 Nm

Permissible lateral load on the telescopic measuring rod

Fq = 0 N

Permissible torques on

the telescopic measuring rod Mxyz = 0 Nm



Size	H1	L1	L2
[mm]		±3.5	
ASDLP-80-50/90	81.5	285	43.8 52.5
ASDLP-80-X	01.5	195+	45.6 52.5
ASDLP-100-50/90		289	
ASDLP-100-90/110	93	309	47.8 56.5
ASDLP-100-X		199+	
ASDLP-125-120/140	109	308	16.8 25.5
ASDLP-125-X	109	168+	10.8 23.3
ASDLP-160-140/170		338	
ASDLP-160-200/220	127	388	16.8 25.5
ASDLP-160-250/270	12/	438	10.0 25.5
ASDLP-160-X		168+	

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Ordering data						
For DLP with piston \varnothing	Stroke	Part No. Type				
[mm]	[mm]					
Kept in stock	Kept in stock					
80	50 90	529 085 ASDLP-80-50/90				
100	50 90	529 087 ASDLP-100-50/90				
	90 110	529 088 ASDLP-100-90/110				
125	120 140	529 090 ASDLP-125-120/140				
160	140 170	529 092 ASDLP-160-140/170				
	200 220	529 093 ASDLP-160-200/220				
	250 270	529 094 ASDLP-160-250/270				
On request						
80	50 600	529 084 ASDLP-80-X				
100	50 600	529 086 ASDLP-100-X				
125	50 600	529 089 ASDLP-125-X				
160	50 600	529 091 ASDLP-160-X				