MODEL LCX - DRAW WIRE SOLUTIONS



FEATURES

Fast and easy encoder mounting Wire length options from 1 to 42.5 meters Linearity \pm 0.05 % of full range (with encoder) Optional high corrosion protection Temperature range -20° C to 85° C Optional low temperature range of -40° C

Available in wire lengths from one meter to 42.5 meters, the LCX draw wire is compatible with the following 58 mm shafted encoders with clamping flange: absolute encoder Model A58SE, which offers EtherCAT[®] and PROFINET[®] communication protocols; Model A58SB, an absolute bus encoder that offers CANopen[®] or SSI communication protocols; Model 758, a high-performance incremental encoder; and the Model 858S, a stainless steel incremental encoder. Choose the right encoder and wire length for your application.

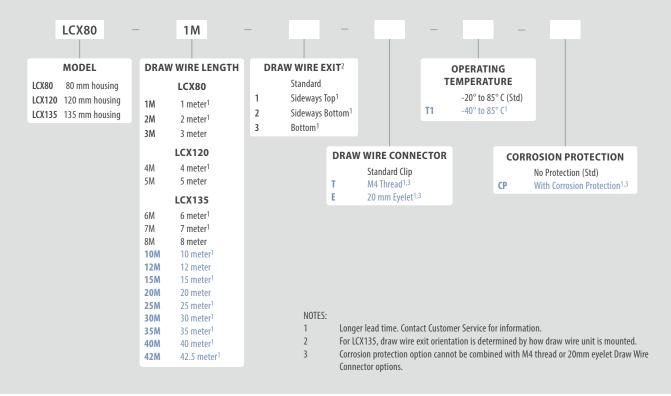
COMMON APPLICATIONS

Robotics, Extrusion Presses, Textile Machinery, Control Gate Positioning, Theater Stages, Elevators, Gantries, Boom Cranes, Fork Lift Booms

The LCX Series of Draw Wire Solutions is manufactured for EPC by our German technology partner.

MODEL LCX ORDERING GUIDE

Blue type indicates price adder options. Not all configuration combinations may be available. Contact Customer Service for details.



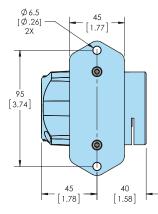
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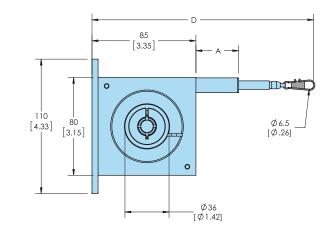


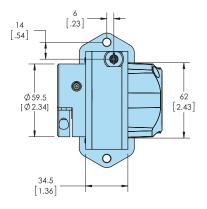
MODEL LCX80

	MODEL LCX80 SPECIFICATIONS					
	Encoder RequirementsClamping flange diameter 36 mm; Shaft diameter 10 mm; Shaft length 20 mm					
	Measurement Range1 (1000 mm), 2 (2000 mm), 3 (3000 mm)					
	Linearity \pm 0.05% (with encoder output)					
	Sheave Circumference					
	Extraction Force F _{min} 4.2 N to 5 N					
Extraction Force F_{max} 1 m wire = 5.4 N; 2 - 3 m = 6.4 N						
	Velocity V _{max} 8 m/s					
	Acceleration a _{max} 8 m/s ^v					
	Weight700 g to 900 g, depending on the measurement range					
	HousingAluminum, anodized, spring case PA6					
	Wire MaterialFlexible stainless steel wire					
	Corrosion ProtectionStandard housing, V4A wire material, stainless steel bearings, and HARTCOAT® coating on wire drum					
	Operating Temp20° to 85° C or low temp option of -40° C					





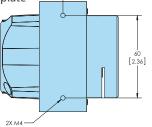




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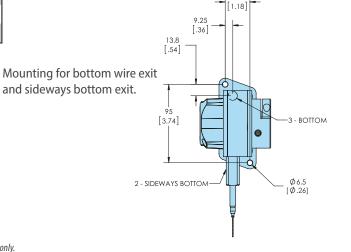
MEASUREMENT RANGE [MM]	А	D	
1000 / 2000 [39.37/78.74]	21 [.83]	≈ 166 [6.54]	
3000 [118.11]	35 [1.38]	≈ 180 [7.09]	

Alternate mounting for standard wire exit and sideways top wire exit with mounting plate removed.



17.25

Note: All primary measurements and specifications in metric. Secondary standard measurements for reference only.



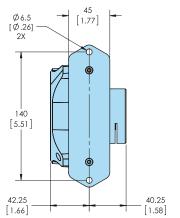
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MODEL LCX120

MODEL LCX120 SPECIFICATIONS								
	Encoder RequirementsClamping flange diameter 36 mm; Shaft diameter 10 mm; Shaft length 20 mm							
	Measurement Range4 (4000 mm), 5 (5000 mm)							
	Linearity \pm 0.05% (with encoder output)							
	Sheave Circumference							
	Extraction Force F _{min} 8 N							
	Extraction Force F_{max}							
	Velocity V _{max} 8 m/s							
	Acceleration a _{max} 8 m/s ²							
	Weight							
	HousingAluminum, anodized, spring case PA6							
	Wire MaterialFlexible stainless steel wire							
	Corrosion ProtectionStandard housing, V4A wire material, stainless steel bearings, and HARTCOAT® coating on wire drum							
	Operating Temp20° to 85° C or low temp option of -40° to 85° C							



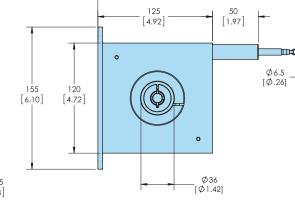


Alternate mounting for standard

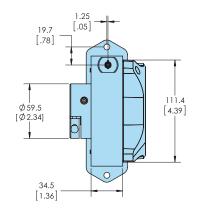
wire exit and sideways top wire

exit with mounting

plate removed.



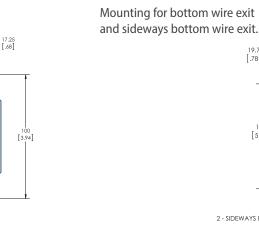
235 [9.25] RETRACTED

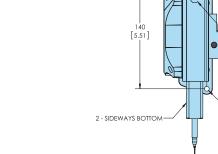


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13.75 [.54]

19.7 [.78]





Note: All primary measurements and specifications in metric. Secondary standard measurements for reference only.

2X M4

BOTTOM

Ø6.5 [Ø.26]

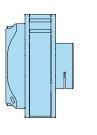


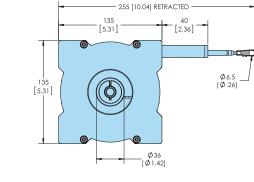
MODEL LCX135

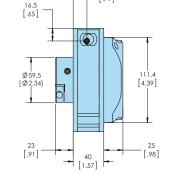
MODEL LCX135 SPECIFICATIONS Encoder Requirements.......Clamping flange diameter 36 mm; Shaft diameter 10 mm; Shaft length 20 mm Linearity..... \pm 0.05% (with encoder output) Extraction Force F_{\min}4.2 N to 5 N Extraction Force F_{max}6 m wire = 7.8 N; 7 or 8 m = 8.2 N; 10 - 12 m = 7.2 N; 15 m = 11.2 N; 20 m = 9.2 N; 25 m = 11.4 N; 30 m = 9.6 N; 35 m = 11.6 N; 40 - 42.5 m = 9 N Velocity V_{max}..... ...6 - 8 m wire = 8m/s; 10 - 15 m = 6 m/s; 20 - 42.5 m = 5 m/s Housing.....Aluminum, anodized, spring case PA6 Wire Material.....Flexible stainless steel wire Corrosion ProtectionStandard housing, V4A wire material, stainless steel bearings, and HARTCOAT® coating on wire drum Operating Temp-20° to 85° C or low temp option of -40° to 85° C



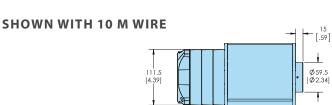
SHOWN WITH 8 M WIRE

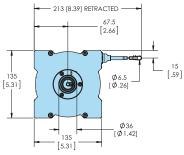






18 [.71]





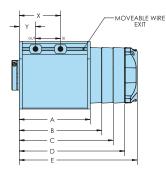
25m [82.0ft]

56 [2.20]

30m [98.4ft]

63 [2.48]

35m [114.8ft]



Letter	Mea	suerment Range	(m [ff])	Length	7
А	10/12/15/20 [32.8/39.4/49.2/65.6]			112 [4.41]	
А	25/30/35/40/42.5 [82.0/98.4/114.8/131.2/139.4]			142 [5.59]	
В	10/12 [32.8/39.4]			137 [5.39]	
С	15/20 [49.2/65.6]			160 [6.30]	
D	25/30 [82.0/98.4]		213 [8.39]		
Position rope outlet at 10		35/40/42.5 [114.8/131.2/139	35/40/42.5 4.8/131.2/139.4]		
		10m [32.8ft]	12m [39.4ft]	15m [49.2ft]	20m [65.6ft]
		33 [1.30]	36 [1.42]	41 [1.61]	48 [1.89]
end of measuren	nent range (Y)	18 [.71]	18 [.71]	18 [.71]	18 [.71]

Note: All primary measurements and specifications in metric. Secondary standard measurements for reference only.

40m [131.2ft]

78 [3.07

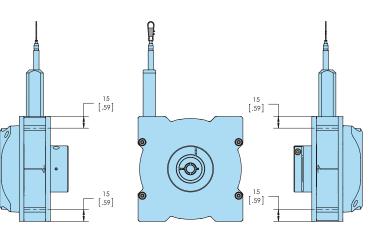
42.5m [139.4ft]

82 [3.23] 18 [.71]

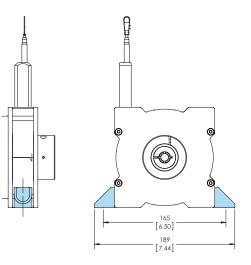


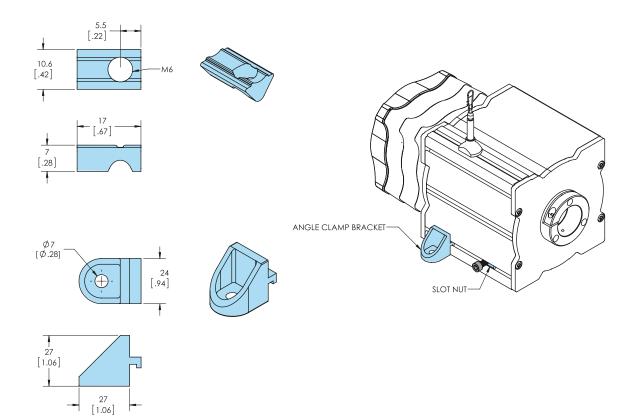
MODEL LCX135 CONTINUED

POSITIONS OF GROOVES FOR MOUNTING



ANGLE CLAMP BRACKETS SPACING

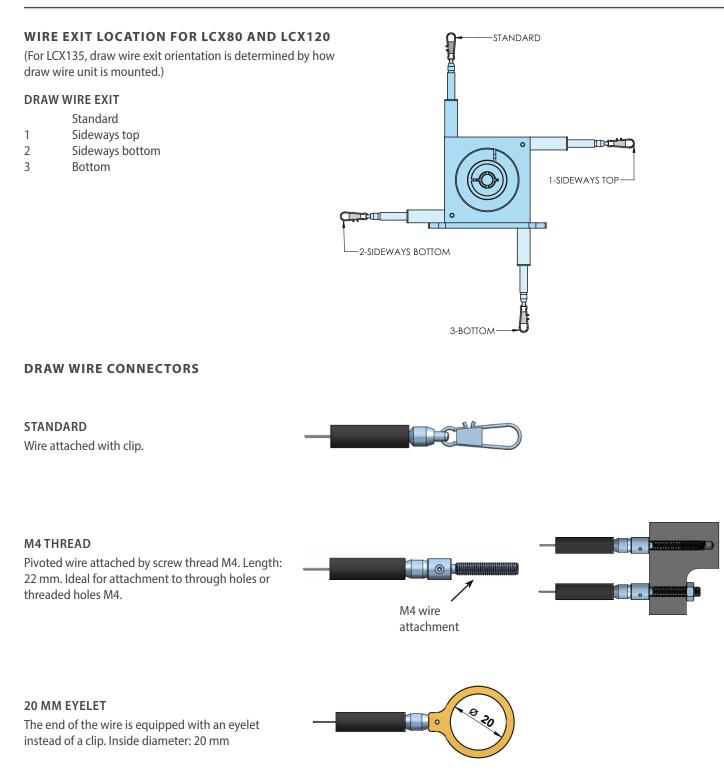




Note: All primary measurements and specifications in metric. Secondary standard measurements for reference only.



WIRE EXIT LOCATIONS FOR LCX80 AND LCX120





MODEL LCX ACCESSORIES

DEFLECTION PULLEY

The wire must be extracted from the draw wire unit in line with the exit axis. The maximum deviation off the exit axis is 3°. A deflection pulley allows a change in the direction of the wire. Several pulleys may be used. The wire clip must not be guided over the deflection pulley.

Material foot: Anodized aluminium

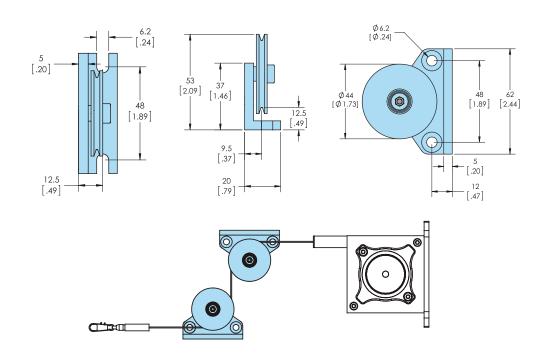
Material wire wheel: POM-C

Mounting: By 2 hexagon socket or countersunk screws M6, vertical or horizontal mounting is possible.

- **Ball bearings:** With special low temperature grease and RS-sealing.
- **Temperature:** -40° to 80° C

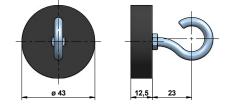


EPC stock #097001



MAGNETIC CLAMP

Use the magnetic clamp to quickly attach the wire to metallic objects without any assembly time. A rubber coating provides gentle contact (e. g. on painted surfaces) and prevents slipping due to vibration. The magnet consists of a neodymium core for an increased magnetic force of 260 N. The hook makes it easy to attach the wire clip.



EPC stock #097002